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# American White Pelican, California Gull Caspian Tern, Double-crested Cormorant Great Blue Heron and Ring-billed Gull Colony Surveys -- Alberta 1998 Volume 1 -- Report (with 1999 update)

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Alberta Environment
Alberta Conservation Association

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North American Waterfowl Management Plan

Alberta ENVIRONMENT

Alberta Conservation Association

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This document is the first volume of a two-volume report. Volume 2 contains the colony location maps. Due to the sensitive nature of colonial nesters to disturbance, these maps will be provided to Regional Endangered Species Specialists and Wildlife Biologists in the Natural Resources Service Area offices, and detailed information will be available on demonstrated need.

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**Volume 2 - Colony Location Maps**

## 1.0 INTRODUCTION

Cottonwood Consultants Ltd. undertook a survey of colonial nesting birds in southern and central Alberta in 1998. This was supplemented by surveys in central and northern Alberta by Alberta Environmental Protection and Elk Island National Park personnel.

The project incorporated an extensive field program. The objectives of the study were:

1. to identify historical and recent nesting colonies from interviews with naturalists and wildlife biologists and from a review of published information and government files;
2. to survey colonies of priority one species (American White Pelican, Double-crested Cormorant, California Gull, Ring-billed Gull, Caspian Tern and larger (15 or more nests/colony) Great Blue Heron colonies) throughout Alberta to determine breeding populations at each colony and to identify a precise location for each colony;
3. to record incidental observations on colonies of priority two species (White-faced Ibis, Common Tern, Forster's Tern, Franklin's Gull, Black Tern, Western Grebe, Clark's Grebe, Black-crowned Night Heron) and other species of concern (e.g. Northern Leopard Frog, Great Plains Toad);
4. to compare the 1998 survey results with historical and recent data to identify any significant trends for priority one species.

The final products consist of:

1. technical background information and field data in printed and computer database form (UTM format compatible with GIS system);
2. a summary report; and
3. a volume of page size maps depicting the locations of colonies from Cottonwood Consultants' surveys.

## 2.0 STUDY METHODS

The study was undertaken in the following stages:

1. interviews, review of literature and file information
2. aerial surveys
3. ground surveys
4. analysis of data and priority one species trends
5. compile database, maps and final report

### 2.1 INTERVIEWS AND INFORMATION REVIEW

The principal sources of information were:

1. Alberta Wildlife Division database (BSOD) - all historical records in section 3.1 unless noted otherwise
2. Alberta Breeding Bird Atlas database (BBA)
3. numerous published reports and recent survey data provided by Elk Island National Park and Alberta Environmental Protection
4. interviews with Alberta Environmental Protection and Ducks Unlimited personnel
5. historical scientific and naturalist literature (see 6.0 References)
6. Prairie Nest Records Scheme (PNRS) data

### 2.2 AERIAL SURVEY METHOD

An initial aerial survey was conducted May 29-31, 1998 to relocate historical colonies and, to a lesser degree, to survey for new colonies. This included a survey of priority North American Waterfowl Management Plan lakes where they were close to survey transects. Over 300 sites were surveyed from the air.

Once a colony was located and marked on the 1:50,000 base map, an estimate of its size was made. For Great Blue Herons and tree-nesting Double-crested Cormorants, a count was made by circling the colony several times at slow

speed. Some large tree-nesting Double-crested Cormorant colonies as well as gull, pelican and ground-nesting cormorant colonies were more accurately assessed during ground surveys and only a rough estimate was made or "active" designation given.

While most of these "active" designations were correct, some apparently active colonies were, in fact, only loafing birds. A few colonies were found that were not obviously active from aerial surveys. While aerial counts of Great Blue Herons in deciduous trees proved to be most accurate, ground surveys were essential for accurate counts of most ground nesters, especially for the largest colonies. A combination of aerial and ground surveys was needed to get the best reading on nesting colonies in some coniferous trees.

Aerial still photographs were taken but they proved to be less informative than the ground surveys where much more accurate count data could be obtained.

### 2.3 GROUND SURVEY METHOD

In all, over 120 sites were investigated on the ground. Exact counts and representative samples were used for the ground-truthed sites. For smaller colonies and to test survey methods for larger colonies, exact counts were taken of all nests.

Following the initial test surveys, representative transects of a measured width and length were sampled at the larger colonies in which exact counts were undertaken. This was done to simplify the surveys and to minimize disturbance to the nesting colonies. Data from these representative transects were then extrapolated to the entire colony using a ratio based on the areal extent of the colony and the area of the representative transect.

Incidental observations of priority two colonial species were also made during the ground surveys.

### 2.4 DATA ANALYSIS

Summaries of data can be found in 4.0 Analysis and Discussion. The results of the various surveys were compiled by various survey periods based on the amount of survey data available: pre-1970s, 1970s, 1980s/1990s and 1998. Estimates of the maximum probable number of nesting pairs were made for each of the six priority one species (American White Pelican, California Gull, Caspian Tern, Double-crested Cormorant, Great Blue Heron and Ring-billed Gull) within these survey periods.

Assumptions had to be made as the data are not exactly comparable. Some survey data specify a range of values and not an exact number while others provide totals of adults not active nests. There is a high degree of confidence in the 1998 survey data totals (+/- 5%) compared to some of the 1960s and 1970s data which may have values within a +/- 10-25% range. Despite these shortcomings, it is believed that the general trends established using this methodology are reasonably accurate and there are sufficient numbers of accurate counts to act as a cross-check on the overall accuracy of the pre-1998 estimates.

### 2.5 DATABASE AND MAPS

A database of aerial and ground survey information was prepared in Access 97 format which was subsequently converted to Excel 97 format for compatibility with the BSOD database.

Hand drawn page-size maps of all sites surveyed by Cottonwood Consultants Ltd. in 1998 are provided in a separate volume. These are mostly on 1:50,000 scale National Topographic System maps with the exception of some areas in the Eastern Irrigation District where more recent and accurate County of Newell maps have been used.

## 3.0 RESULTS

### 3.1 SUMMARY OF LOCATION DATA

**Location:** Akasu Lake 1
**Map:** 73E/5 & 73E/12
**Legal:** E16-52-13-W4
**Section** E16 **TP** 52 **RGE** 13 **MER** W4
**UTME:** 443920
**UTMN:** 5927887

**Description:** low water; rocky sandy shore, grass-forb covered island with 12 small aspen; early fledgling stage
**Notes:** 1998 Ground Survey; SW island

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/08
**Ground Check:** Yes

**Species:** American White Pelican
**Adults:** 5

**Species:** California Gull
**Nests (Ground Survey):** 312
**Nests (Aerial Survey):** active
**Adults:** 500

**Species:** Double-crested Cormorant
**Nests (Ground Survey):** 0; no nests found despite apparent nesting from aerial survey
**Nests (Aerial Survey):** 30 nests
**Adults (Ground Survey):** 10

**Species:** Herring Gull
**Nests (Ground Survey):** 1
**Adults:** 2

**Species:** Ring-billed Gull
**Nests (Ground Survey):** 1248
**Nests (Aerial Survey):** active
**Adults:** 2000

**Historical Data:**

None--new colonies.

---

**Location:** Akasu Lake 2
**Map:** 73E/5 & 73E/12
**Legal:** W22-52-13-W4
**Section** W22 **TP** 52 **RGE** 13 **MER** W4
**UTME:** 444492
**UTMN:** 5928274

**Description:** low water; bare dirt with patches of grass-forb, few small shrubs; early fledgling stage
**Notes:** 1998 Ground Survey; centre island

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/08
**Ground Check:** Yes

**Species:** American White Pelican
**Adults:** 22

**Species:** California Gull
**Nests (Ground Survey):** 970
**Nests (Aerial Survey):** active
**Adults:** 600

**Species:** Herring Gull
**Nests (Ground Survey):** 3
**Nests (Aerial Survey):** active
**Adults:** 10

**Species:** Ring-billed Gull
**Nests (Ground Survey):** 5
**Nests (Aerial Survey):** active
**Adults:** 20

**Historical Data:**

None--new colonies.

---

**Location:** Anderson Creek North
**Map:** 83B/15
**Legal:** NW18-44-4-W5
**Section** NW18 **TP** 44 **RGE** 4 **MER** W5
**UTME:** 663300
**UTMN:** 5852350

**Description:** small island in small water body near Wilson Creek
**Notes:** 1998 Aerial Survey

**Observers:** Wayne Smith, Cliff Wallis
**Aerial Survey Date:** May 29-31 1998
**Ground Check:** No

**Species:** Great Blue Heron
**Nests (Aerial Survey):** 10 nests

**Historical Data:**

Great Blue Heron

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Anderson Creek | NE5-44-4-W5 (? correct location) | 16 nests | 1987 | 4--Map 82 B; BSOD (1998) 294-295; Steve Brechtel, NRS Edmonton (1998); beaver pond NW of Bluffton; note different location than 1998 |
| | | 21 nests | 1988 | |

**Location:** Antoine Lake
**Map:** 83I/16
**Legal:** 4-67-14-W4
**Section** 4 **TP** 67 **RGE** 14 **MER** W4
**UTME:** 430265
**UTMN:** 6069317

**Description:** normal water level; willow/small shrub at 1; dead birch/poplar at 2; fallen trees at 3; rocky shore at 4; 1100 ground, 20 tree nests; nestling stage
**Notes:** 1998 Ground Survey; Map 83I/16; X138; 5 mi W of Lac La Biche town; no colonies on other islands

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/03
**Ground Check:** Yes

**Species:** Black Tern
**Adults:** 1

**Species:** California Gull
**Nests (Ground Survey):** 2000
**Adults:** 500

**Species:** Common Tern
**Adults:** 2

**Species:** Double-crested Cormorant
**Nests (Ground Survey):** 1120
**Adults:** 700

**Species:** Franklin's Gull
**Adults:** 50

**Species:** Herring Gull
**Nests (Ground Survey):** 3
**Adults:** 20

**Species:** Ring-billed Gull
**Nests (Ground Survey):** 200
**Adults:** 100

**Historical Data:**

California Gull

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Antoine Lake | 4-67-14-W4 | 1 nest | 1993 | St. Paul NRS (1998); # of nests may be incorrect; may indicate presence of colony |

Double-crested Cormorant

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Antoine Lake | 4-67-14-W4 | 60 nests | 1988 | St. Paul NRS (1998) |
| | | 75 nests | 1989 | St. Paul NRS (1998) |
| | | 212 nests | 1991 | St. Paul NRS (1998) |

| | | | | |
|---|---|---|---|---|
| | | 251 nests | 1993 | St. Paul NRS (1998) |

Ring-billed Gull

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Antoine Lake | 4-67-14-W4 | 1 nest | 1993 | St. Paul NRS (1998); # of nests may be incorrect; may indicate presence of colony |

---

**Location:** Arthur Lake
**Map:** Map 83G/15
**Legal:** NE22--55-5-W5
**Section** NE22 **TP** 55 **RGE** 5 **MER** W5
**UTME:** 654850
**UTMN:** 5959756

**Description:** normal water level; willow-poplar-birch island, most nests in poplar and birch, ring of cattail; late nestling stage; surveyed from west shore
**Notes:** 1998 Ground Survey; Map 83G/15, 8 miles NW of Lac St. Anne, Great Blue Heron=XH3; Double-crested Cormorant=XH2; access from well at SW corner

**Observers (Ground Survey):** Cliff Wallis
**Ground Survey Date:** 1998/07/02
**Ground Check:** Yes

**Species:** Double-crested Cormorant
**Nests (Ground Survey):** 78
**Nests (Aerial Survey):** 85 nests
**Adults:** 60

**Species:** Great Blue Heron
**Nests (Ground Survey):** 12
**Nests (Aerial Survey):** 10 nests
**Adults:** 10

**Historical Data:**

Double-crested Cormorant

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Arthur Lake | NE22-55-5-W5 | 27 nests | 1990 | St. Paul NRS (1998) |
| | | 67 nests | 1992 | St. Paul NRS (1998) |

Great Blue Heron

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Arthur Lake | NE22-55-5-W5 | 44 nests | 1967 | Vermeer (1969b); Brechtel (1981) |
| | | 32 nests | 1976 | St. Paul NRS (1998); Brechtel (1981) |
| | | 20 nests | 1977 | St. Paul NRS (1998); Brechtel (1981) |
| | | 18 nests | 1978 | St. Paul NRS (1998); Brechtel (1981) |
| | | 40 nests | 1979 | St. Paul NRS (1998); Brechtel (1981) |
| | | 30 nests | 1980 | St. Paul NRS (1998); Brechtel (1981) |
| | | 25 nests | 1990 | St. Paul NRS (1998); Brechtel (1981) |

| | | | | |
|---|---|---|---|---|
| | | 19 nests | 1992 | St. Paul NRS (1998); Brechtel (1981) |
| | | 0 nests | 1995 | Wollis (1999) |

**Location:** Astotin Lake
**Map:** 83H/10
**Legal:** NW23-54-20-W4
**Section** NW23 **TP** 54 **RGE** 20 **MER** W4
**UTME:** 377600
**UTMN:** 5948750

**Description:** normal water level; spruce island; nestling stage (13 young seen); Elk Island National Park's survey
**Notes:** 1998 Elk Island National Park Survey; Map 83H/10; X140 = XH3; Lamont Island; Elk Island NP

**Observers (Ground Survey):** R. Kaye, R. Larsen
**Ground Survey Date:** 1998/06/17
**Ground Check:** 1998 Elk Island National Park Survey

**Species:** Double-crested Cormorant
**Nests (Ground Survey):** 63
**Nests (Aerial Survey):** >15 nests
**Adults:** 88

**Species:** Great Blue Heron
**Nests (Ground Survey):** 11
**Nests (Aerial Survey):** 11
**Adults:** 7

**Historical Data:**

Double-crested Cormorant

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Astotin Lake | NW23-54-20-W4 | 0 nests | 1979 | St. Paul NRS (1998); Lamont Is. |
| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
| Astotin Lake | | 7 nests | 1980 | St. Paul NRS (1998); Lamont Is. |
| (continued) | | 0 nests | 1987-1990 | St. Paul NRS (1998); Lamont Is. |
| | | 32 nests | 1992 | St. Paul NRS (1998); Lamont Is. |
| | | 34 nests | 1993 | St. Paul NRS (1998); Lamont Is. |
| | | 36 nests | 1994 | St. Paul NRS (1998); Lamont Is. |
| | | 33-37 nests | 1995 | St. Paul NRS (1998); Lamont Is. |
| | | 29 nests | 1996 | St. Paul NRS (1998); Lamont Is. |
| | | 52 nests | 1997 | St. Paul NRS (1998); Lamont Is. |

Great Blue Heron

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Astotin Lake | NW23-54-20-W4 | 1 nest | 1984 | St. Paul NRS (1998); Lamont Is. |
| | | 1 nest | 1992 | St. Paul NRS (1998); Lamont Is. |
| | | 2 nests | 1993 | St. Paul NRS (1998); Lamont Is. |
| | | 0 nests | 1994 | St. Paul NRS (1998); Lamont Is. |
| | | 3 nests | 1995 | St. Paul NRS (1998); Lamont Is. |
| | | 3 nests | 1996 | St. Paul NRS (1998); Lamont Is. |

| | | | | |
|---|---|---|---|---|
| | | 19 nests | 1997 | St. Paul NRS (1998); Lamont Is. |

---

**Location:** Badger Reservoir
**Map:** 82I/8
**Legal:** NE36-16-19-W4
**Section** NE36 **TP** 16 **RGE** 19 **MER** W4
**UTME:** 394500
**UTMN:** 5583400

**Description:** high water; grassy-low willow island; no nests, loafing only; scoped from shore
**Notes:** 1998 Ground Survey; small islands at NW end; UTM 394863 5583735

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/21
**Ground Check:** Yes

**Species:** American White Pelican
**Adults:** 7

**Species:** California Gull
**Nests (Ground Survey):** 0
**Nests (Aerial Survey):** apparently <15 nests (not found on ground survey)
**Adults:** 14

**Species:** Caspian Tern
**Adults:** 2

**Species:** Common Tern
**Adults:** 2

**Species:** Double-crested Cormorant
**Adults:** 3

**Species:** Franklin's Gull
**Adults:** 5

**Historical Data:**

- none; new survey location; gulls that appeared to be nesting from aerial surveys were not nesting

---

**Location:** Bang's Lake
**Map:** 73L/3
**Legal:** 12-60-8-W4
**Section** 12 **TP** 60 **RGE** 8 **MER** W4
**UTME:** 496000
**UTMN:** 6002000

**Description:** aspen woods with some spruce
**Notes:** 1998 Ground Survey (from highway); Map 73L/3; 8 mi SW of Moose L. PP, XH5; behind tall spruce; off NW end of lake

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/06

**Ground Check:** Yes

**Species:** Great Blue Heron
**Nests (Ground Survey):** 24
**Nests (Aerial Survey):** not found
**Adults:** 15

**Historical Data:**

Great Blue Heron

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Bangs Lake | NW6-60-7-W4 | 19 nests | 1980 | St. Paul NRS (1998); Brechtel (1981); ?same as next site |
| Bangs Lake | 12-60-8-W4 | 19 nests | 1981 | St. Paul NRS (1998); Brechtel (1981) |
| | | 33 nests | 1985 | St. Paul NRS (1998); Brechtel (1981) |
| | | 30 nests | 1988 | St. Paul NRS (1998); Brechtel (1981) |
| | | 16 nests | 1990 | St. Paul NRS (1998); Brechtel (1981) |
| | | 25 nests | 1992 | St. Paul NRS (1998); Brechtel (1981) |
| | | surveyed (? colony) | 1994 | St. Paul NRS (1998); Brechtel (1981) |

---

**Location:** Battle River - Battle Bend E
**Map:** 73D/6
**Legal:** 24-40-10-W4
**Section** 24 **TP** 40 **RGE** 10 **MER** W4
**UTME:** 478700
**UTMN:** 5811500

**Description:** poplars, north side of Battle River
**Notes:** 1998 Aerial Survey; BSOD (1998) 8822; 5 miles NE of Battle Bend

**Observers:** Wayne Smith, Cliff Wallis
**Aerial Survey Date:** May 29-31 1998
**Ground Check:** No

**Species:** Great Blue Heron
**Nests (Aerial Survey):** 4 nests

**Historical Data:**

Great Blue Heron

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Battle River-Battle Bend E | 24-40-10-W4 | 9 nests | 1998 | BSOD (1998); found on winter survey |

---

**Location:** Battle River- Battle Bend S
**Map:** 73D/6
**Legal:** SW36-39-11-W4
**Section** SW36 **TP** 39 **RGE** 11 **MER** W4
**UTME:** 468800

**UTMN:** 5804650

**Description:** poplars, in loop of Battle River
**Notes:** 1998 Aerial Survey; west of BSOD 309; 468415 5805149 APPROX.

**Observers:** Wayne Smith, Cliff Wallis
**Aerial Survey Date:** May 29-31 1998
**Ground Check:** No

**Species:** Great Blue Heron
**Nests (Aerial Survey):** <15 nests

**Historical Data:**

Great Blue Heron -- new location found in 1998 Aerial Survey

---

**Location:** Battle River-Big Knife
**Map:** 83A/9
**Legal:** NE7-41-16-W4
**Section** NE7 **TP** 41 **RGE** 16 **MER** W4
**UTME:** 412311
**UTMN:** 5819100

**Description:** balsam poplar "island" formed by oxbow lake; some snag nest trees; 28 nests, 19 occupied; late nestling stage
**Notes:** 1998 Ground Survey; BSOD (1998) 305-306; Bigknife Creek, 3 miles W of Bigknife PP.; access from Buck for Wildlife area

**Observers (Ground Survey):** Cliff Wallis
**Ground Survey Date:** 1998/07/03
**Ground Check:** Yes

**Species:** Great Blue Heron
**Nests (Ground Survey):** 19
**Nests (Aerial Survey):** active
**Adults:** 5

**Historical Data:**

Great Blue Heron

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Battle River-Big Knife | x-41-17-W4 | 12 nests | 1967 | Vermeer (1969b); probably same as next site |
| | SE7-41-16-W4 | 11 nests | 1978 | BSOD (1998) |
| | | occupied | 1979 | BSOD (1998) |
| | | 14 nests | 1982 | BSOD (1998) |

---

**Location:** Battle River - Castor Creek
**Map:** 73D/5
**Legal:** SE2-39-12-W4
**Section** SE2 **TP** 39 **RGE** 12 **MER** W4

**UTME:** 457900
**UTMN:** 5797250

**Description:** poplars, south side of Battle River in meander loop
**Notes:** 1998 Aerial Survey; BSOD (1998) 310, 827; near creek, 8 miles SE of Alliance; note new location

**Observers:** Wayne Smith, Cliff Wallis
**Aerial Survey Date:** May 29-31 1998
**Ground Check:** No

**Species:** Great Blue Heron
**Nests (Aerial Survey):** 20 nests

**Historical Data:**

Great Blue Heron

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Battle River--Castor Creek | NE3-39-12-W4 or 33-38-12-W4 (?wrong location) | 15 nests | 1994 | Red Deer NRS (1998); BSOD (1998); may have moved from here to new site |
| | | 20 nests | 1998 | Red Deer NRS (1998); BSOD (1998); seen on winter survey |

**Location:** Battle River-Forestburg
**Map:** 83A/8
**Legal:** 27-40-15-W4
**Section** 27 **TP** 40 **RGE** 15 **MER** W4
**UTME:** 426550
**UTMN:** 5813100

**Description:** poplars along Battle River
**Notes:** 1998 Aerial Survey; BSOD (1998) 304; 5 miles E of Big Knife Provincial Park

**Observers:** Wayne Smith, Cliff Wallis
**Aerial Survey Date:** May 29-31 1998
**Ground Check:** No

**Species:** Great Blue Heron
**Nests (Aerial Survey):** 4 nests

**Historical Data:**

Great Blue Heron

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Battle River-Forestburg | 27-40-15-W4 | 8 nests | 1987 | BSOD (1998) |

---

**Location:** Battle River-Wetaskiwin
**Map:** 83A/14
**Legal:** E12-45-23-W4
**Section** E12 **TP** 45 **RGE** 23 **MER** W4
**UTME:** 351900
**UTMN:** 5859600

**Description:** poplars on east side of Battle River
**Notes:** 1998 Aerial Survey; BSOD (1998) 298-303; 7 miles SW of Wetaskiwin

**Observers:** Wayne Smith, Cliff Wallis
**Aerial Survey Date:** May 29-31 1998
**Ground Check:** No

**Species:** Great Blue Heron
**Nests (Aerial Survey):** 10 nests

**Historical Data:**

Great Blue Heron

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Battle River-Wetaskiwin | E12-45-23-W4 | 30 nests | 1967 | Vermeer (1969b) |
| | | 30 nests | 1973 | BSOD (1998) |
| | | 51 nests | 1974 | BSOD (1998) |
| | | 53 nests | 1975 | BSOD (1998) |
| | | 17 nests | 1978 | BSOD (1998) |
| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
| Battle River-Wetaskiwin | | occupied | 1979 | BSOD (1998) |

| | | | | |
|---|---|---|---|---|
| continued | | 21 nests | 1982 | BSOD (1998) |

---

**Location:** Beaver Lake 1
**Map:** 73L/12
**Legal:** 34-65-12-W4
**Section** 34 **TP** 65 **RGE** 12 **MER** W4
**UTME:** 452700
**UTMN:** 6058150

**Description:** small island at southeast end of Beaver Lake
**Notes:** 1998 Aerial Survey; Map 73L/12; X146

**Observers (Aerial Survey):** John Martin, Alberta Fish and Wildlife
**Aerial Survey Date:** 1998/07/09
**Ground Check:** No

**Species:** California Gull
**Nests (Aerial Survey):** part of 500 nests

**Species:** Ring-billed Gull
**Nests (Aerial Survey):** part of 500 nests

**Historical Data:**

California Gull

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Beaver Lake 1 | 34-65-12-W4 | 100 nests | 1991 | St. Paul NRS (1998) |

Ring-billed Gull

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Beaver Lake 1 | 34-65-12-W4 | 100 nests | 1991 | St. Paul NRS (1998) |

---

**Location:** Beaver Lake 2
**Map:** 73L/12
**Legal:** E21-66-13-W4
**Section** E21 **TP** 66 **RGE** 13 **MER** W4
**UTME:** 442300
**UTMN:** 6064500

**Description:** wooded peninsula at northeast end of Beaver Lake
**Notes:** Fish and Wildlife 1998 Aerial Survey; Map 73L/12; west of X145/XH10 and XH11

**Observers (Aerial Survey):** John Martin, Alberta Fish and Wildlife
**Aerial Survey Date:** 1998/07/09
**Ground Check:** No

**Species:** Great Blue Heron
**Nests (Aerial Survey):** 60

**Historical Data:**

Double-crested Cormorant

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Beaver Lake 2 | N15-66-13-W4 | surveyed (no data) | 1996 | St. Paul NRS (1998); location?, extinct? |

Great Blue Heron -- above site is likely new location for these colonies

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Beaver Lake 2 | | occupied | 1970 | St. Paul NRS (1998); 5 miles from next site |
| Beaver Lake 2 | E21-66-13-W4; erroneously? in BSOD (1998) as N15-66-13-W4 or 22-66-14-W4 | 30 nests | 1972 | Brechtel (1981); St. Paul NRS (1998); ?above moved to this site in 1972 |
| | | 30 nests | 1972 | St. Paul NRS (1998) |
| | | 30 nests | 1977 | St. Paul NRS (1998) |
| | | 75 nests | 1978 | St. Paul NRS (1998) |
| | | 35 nests | 1979 | St. Paul NRS (1998) |
| | | 19 nests | 1980 | St. Paul NRS (1998) |
| | | 75 nests | 1981 | St. Paul NRS (1998) |
| | | 75 nests | 1988 | St. Paul NRS (1998) |
| | | 100 nests | 1991 | St. Paul NRS (1998) |
| | | 40 nests | 1992 | St. Paul NRS (1998) |
| | | surveyed (no data) | 1996 | St. Paul NRS (1998) |

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**Location:** Beaverhill Lake 1
**Map:** 83H/8
**Legal:** N8-52-17-W4
**Section** N8 **TP** 52 **RGE** 17 **MER** W4
**UTME:** 402496
**UTMN:** 5926331

**Description:** low water; gravel island, partly forb covered; egg stage
**Notes:** 1998 Ground Survey; X147; N of 2 islands--largest on north, island closest to E-W road allowance

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/08
**Ground Check:** Yes

**Species:** American White Pelican
**Nests (Ground Survey):** 152
**Nests (Aerial Survey):** 200 + 30 nests
**Adults:** 250
**Notes:** 1998 Ground Survey; 1998 Elk Island National Park aerial survey

**Species:** California Gull
**Nests (Ground Survey):** 51
**Nests (Aerial Survey):** part of 40 nests
**Adults:** 100

**Species:** Common Tern

**Adults:** 1

**Species:** Double-crested Cormorant
**Nests (Ground Survey):** 1
**Nests (Aerial Survey):** 150 + 30 nests
**Adults:** 0

**Species:** Forster's Tern
**Adults:** 30

**Species:** Western Grebe
**Adults:** 40

**Historical Data:**

- see Beaverhill 2

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**Location:** Beaverhill Lake 2
**Map:** 83H/8
**Legal:** SW8-52-17-W4
**Section** SW8 **TP** 52 **RGE** 17 **MER** W4
**UTME:** 402210
**UTMN:** 5925583

**Description:** low water; low shrub and forb island, rock-grass center; egg stage
**Notes:** 1998 Ground Survey; Map 83H/8,9,10; X147; S of 2 islands

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/08
**Ground Check:** Yes

**Species:** American White Pelican
**Nests (Ground Survey):** 19
**Nests (Aerial Survey):** 200 + 30 nests
**Adults:** 75

**Species:** California Gull
**Nests (Ground Survey):** 80
**Nests (Aerial Survey):** part of 40 nests
**Adults:** 70

**Species:** Common Tern
**Adults:** 4

**Species:** Double-crested Cormorant
**Nests (Ground Survey):** 32
**Nests (Aerial Survey):** 150 + 30 nests
**Adults:** 50

**Species:** Forster's Tern
**Adults:** 100

**Species:** Ring-billed Gull
**Nests (Ground Survey):** 40

**Nests (Aerial Survey):** part of 40 nests
**Adults:** 50

**Historical Data (Beaverhill 1 and 2):**

American White Pelican

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Beaverhill Lake | 8-52-17-W4 | 81 nests | 1959 | St. Paul NRS (1998) |
| | | 14 nests | 1960 | St. Paul NRS (1998) |
| | | 0 nests | 1961, 1962, 1967, 1975 | St. Paul NRS (1998) |
| | | 14 nests | 1976 | Weseloh et al. (1977) |
| | | 0 nests | 1977-1979 | St. Paul NRS (1998) |
| | | 38 nests | 1980 | St. Paul NRS (1998) |
| | | 10 nests | 1981 | St. Paul NRS (1998) |
| | | 0 nests | 1983 | St. Paul NRS (1998) |
| | | 84 nests | 1984 | St. Paul NRS (1998) |
| | | 33 nests | 1985 | St. Paul NRS (1998) |
| | | 26 nests | 1987 | St. Paul NRS (1998) |
| | | 35 nests | 1989 | St. Paul NRS (1998) |
| | | 171 nests | 1991 | St. Paul NRS (1998) |
| | | 258 nests | 1992 | St. Paul NRS (1998) |
| | | 395 nests | 1993 | St. Paul NRS (1998) |
| | | 80 adults | 1994 | St. Paul NRS (1998) |
| | | 525 adults | 1998 | St. Paul NRS (1998) |

California Gull

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Beaverhill Lake | 8-52-17-W4 | 100-500 nests | 1968 | Vermeer (1970a); St. Paul NRS (1998), Brechtel, NRS (1998) |
| | | 453 nests | 1976 | St. Paul NRS (1998), Brechtel, NRS (1998) |
| | | 50-100 nests | 1990 | St. Paul NRS (1998), Brechtel, NRS (1998) |
| | | 30 nests | 1991 | St. Paul NRS (1998), Brechtel, NRS (1998) |
| | | 150 nests | 1992 | St. Paul NRS (1998), Brechtel, NRS (1998) |
| | | 307 nests | 1993 | St. Paul NRS (1998), Brechtel, NRS (1998) |
| | | surveyed | 1994 | St. Paul NRS (1998), Brechtel, NRS (1998) |

Double-crested Cormorant

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Beaverhill Lake | 8-52-17-W4 | 0 nests | 1967 | St. Paul NRS (1998) |
| | | 7 nests | 1975 | Weseloh et al. (1975) |
| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
| Beaverhill Lake | | 30 nests | 1976 | Weseloh et al. (1977) |
| continued | | 0 nests | 1977-1979 | St. Paul NRS (1998) |
| | | 44 nests | 1980 | St. Paul NRS (1998) |
| | | 40 nests | 1981 | St. Paul NRS (1998) |
| | | 34 nests | 1983 | St. Paul NRS (1998) |
| | | 24 nests | 1984 | St. Paul NRS (1998) |
| | | 42 nests | 1985 | St. Paul NRS (1998) |
| | | 29 nests | 1987 | St. Paul NRS (1998) |

| | | | | |
|---|---|---|---|---|
| | | 100 nests | 1990 | St. Paul NRS (1998) |
| | | 207 nests | 1991 | St. Paul NRS (1998) |
| | | 240 nests | 1992 | St. Paul NRS (1998) |
| | | 248 nests | 1993 | St. Paul NRS (1998) |
| | | surveyed (no data) | 1994 | St. Paul NRS (1998) |

Ring-billed Gull

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Beaverhill Lake | 8-52-17-W4 | 1000-3000 nests | 1968 | Vermeer (1970a) |
| | | 1295 nests | 1976 | Weseloh et al. (1977) |
| | | active | 1977 | St. Paul NRS (1998) |

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**Location:** Big Island Lake (Birch Mountains)
**Map:** 84H
**Legal:** 99-16-W4
**Section TP** 99 **RGE** 16 **MER** W4

**Description:** mixedwood island in northwestern portion of lake with rocky spit
**Notes:** Fish and Wildlife 1998 Aerial Survey; Map 84 H; possible nesting, no ground survey

**Observers (Aerial Survey):** John Martin, Alberta Fish and Wildlife
**Aerial Survey Date:** 1998/06/09
**Ground Check:** No

**Species:** American White Pelican
**Adults:** 20 on island, 15 on lake; no confirmation of nesting

**Species:** Double-crested Cormorant
**Adults:** 10 on island; no confirmation of nesting

**Historical Data:**

American White Pelican

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Big Island Lake | | 24 nests | 1975 | Beaver (1980) |

**Location:** Blackfoot Lake
**Map:** 83H/10
**Legal:** NW30-52-19-W4
**Section** NW30 **TP** 52 **RGE** 19 **MER** W4
**UTME:** 380750
**UTMN:** 5932000

**Description:** normal water level; birch-spruce island; nestling stage (83 young seen); Elk Island National Park's survey
**Notes:** 1998 Elk Island National Park Survey; Map 83H/10; sw corner of Elk Island NP; island in lake; XH17

**Observers (Ground Survey):** B Romaniuk
**Ground Survey Date:** 1998/06/20
**Ground Check:** Elk Island National Park

**Species:** Great Blue Heron
**Nests (Ground Survey):** 32
**Nests (Aerial Survey):** 30+ nests
**Adults:** 10

**Historical Data:**

Great Blue Heron

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Blackfoot Lake | NW30-52-19-W4 | 15 nests | 1976 | St. Paul NRS (1998); Brechtel (1981); Elk Island NP; island |
| | | 15 nests | 1977 | St. Paul NRS (1998); Brechtel (1981) |
| | | 31 nests | 1978 | St. Paul NRS (1998); Brechtel (1981) |
| | | 30 nests | 1979 | St. Paul NRS (1998); Brechtel (1981) |
| | | 30 nests | 1980 | St. Paul NRS (1998); Brechtel (1981) |
| | | 36 nests | 1982 | St. Paul NRS (1998) |
| | | 80 nests | 1984 | St. Paul NRS (1998); R. Kaye (1998) |
| | | 42 nests | 1985 | St. Paul NRS (1998); R. Kaye (1998) |
| | | 20 nests | 1986 | St. Paul NRS (1998) |
| | | 55 nests | 1987 | St. Paul NRS (1998) |
| | | 18 nests | 1988 | St. Paul NRS (1998) |
| | | 59 nests | 1989 | St. Paul NRS (1998); R. Kaye (1998) |
| | | 50 nests | 1990 | St. Paul NRS (1998) |
| | | 73 nests | 1991 | St. Paul NRS (1998); R. Kaye (1998) |
| | | 72 nests | 1992 | St. Paul NRS (1998); R. Kaye (1998) |
| | | 88 nests | 1993 | St. Paul NRS (1998); R. Kaye (1998) |
| | | 61 nests | 1994 | St. Paul NRS (1998); R. Kaye (1998) |
| | | 50 nests | 1995 | St. Paul NRS (1998); R. Kaye (1998) |
| | | 36 nests | 1996 | St. Paul NRS (1998); R. Kaye (1998) |
| | | 37 nests | 1997 | St. Paul NRS (1998); R. Kaye (1998) |

**Location:** Boyne Lake
**Map:** 73L/4
**Legal:** 1-61-12-W4
***Section 1 TP 61 RGE 12 MER W4***
**UTME:** 456700
**UTMN:** 6011200

**Description:** peninsula of small lake east of Boyne Lake
**Notes:** 1998 Aerial Survey; Map 73L/5; XH23; 4 mi NE of Garner L PP

**Observers:** Wayne Smith, Cliff Wallis
**Aerial Survey Date:** May 29-31 1998
**Ground Check:** No

**Species:** Great Blue Heron
**Nests (Aerial Survey):** 20 nests

**Historical Data:**

Great Blue Heron

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Boyne Lake | 1-61-12-W4 | 16 nests | 1985 | St. Paul NRS (1998) |
| | | 14 nests | 1988 | St. Paul NRS (1998) |
| | | 10 nests | 1990 | St. Paul NRS (1998) |
| | | 15 nests | 1991 | St. Paul NRS (1998) |
| | | 13 nests | 1993 | St. Paul NRS (1998) |

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**Location:** Brazeau Reservoir
**Map:** 83B/14
**Legal:** NE34-45-11-W5
**Section** NE34 **TP** 45 **RGE** 11 **MER** W5
**UTME:** 601000
**UTMN:** 5865000

**Description:** dead trees in bay of reservoir
**Notes:** 1998 Aerial Survey; XH24

**Observers:** Wayne Smith, Cliff Wallis
**Aerial Survey Date:** May 29-31 1998
**Ground Check:** No

**Species:** Great Blue Heron
**Nests (Aerial Survey):** 10 nests

**Historical Data:**

Great Blue Heron

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Brazeau Reservoir | N34-45-11-W5 | 18 nests | 1975 | Brechtel (1981) |
| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
| Brazeau Reservoir | | occupied | 1980 | Brechtel (1981) |

| | | | | |
|---|---|---|---|---|
| continued | | 43 nests | 1985 | easternmost bay of canal (Bruns 1998) |

**Location:** Bruce Lake
**Map:** 82P/4
**Legal:** E3-26-26-W4
**Section** E3 **TP** 26 **RGE** 26 **MER** W4
**UTME:** 322119
**UTMN:** 5674244

**Description:** high water; grass island; egg stage
**Notes:** 1998 Ground Survey; Map 82 P; island at S; X151; 5 mi E of Keoma

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/29
**Ground Check:** Yes

**Species:** American White Pelican
**Adults:** 3

**Species:** Black Tern
**Adults:** 1

**Species:** California Gull
**Nests (Ground Survey):** 178
**Nests (Aerial Survey):** <500 nests
**Adults:** 200

**Species:** Common Tern
**Adults:** 2

**Species:** Double-crested Cormorant
**Nests (Ground Survey):** 14
**Adults:** 20

**Species:** Ring-billed Gull
**Nests (Ground Survey):** 210
**Nests (Aerial Survey):** < 500 nests
**Adults:** 250

**Historical Data:**

California Gull

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Bruce Lake | x-26-26-W4 | part of 400 adults | 1978 | Ealey (1986); island at S end |

Ring-billed Gull

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Bruce Lake | x-26-26-W4 | part of 400 adults | 1978 | Ealey (1986); island at S end |

**Location:** Buffalo Lake 1

**Map:** 83A/7
**Legal:** N26-40-21-W4
**Section** N26 **TP** 40 **RGE** 21 **MER** W4
**UTME:** 369593
**UTMN:** 5815363

**Description:** aspen forest; large point (technically an island); difficult to see from ground; nestling stage
**Notes:** 1998 Ground Survey; BSOD (1998) 336-342 and 8819--large treed island, WNW of Rochon Sands PP.

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/17
**Ground Check:** Yes

**Species:** Great Blue Heron
**Nests (Ground Survey):** 14
**Nests (Aerial Survey):** 39 nests
**Adults:** 9

**Historical Data:**

Great Blue Heron

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Buffalo Lake 1 | NW26-40-21-W4; erroneously in BSOD as 14-40-21-W4 or elsewhere as 27-40-21-W4 | 7 to 30 nests | 1967 to 1987 | Vermeer (1969b); BSOD (1998); large treed island near west shore, almost due W of N tip of Rochon Sands P.P. |
| | | 7 nests | 1967 | BSOD (1998) |
| | | 9 nests | 1969 | BSOD (1998) |
| | | 25 nests | 1977 | BSOD (1998) |
| | | 16 nests | 1978 | BSOD (1998) |
| | | 23 nests | 1979 | BSOD (1998) |
| | | occupied | 1980 | BSOD (1998) |
| | | 26 nests | 1982 | BSOD (1998) |
| | | 12 nests | 1987 | BSOD (1998) |

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**Location:** Buffalo Lake 2 - Island D
**Map:** 83A/10
**Legal:** SW10-41-21-W4
**Section** SW10 **TP** 41 **RGE** 21 **MER** W4
**UTME:** 367499
**UTMN:** 5819365

**Description:** normal water level; bare, rocky island; nestling stage
**Notes:** 1998 Ground Survey; NW arm; X152; note wrong location in old database; corrected on map

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/17
**Ground Check:** Yes

**Species:** American White Pelican
**Nests (Ground Survey):** 0; no nests found despite apparent nesting on aerial survey
**Nests (Aerial Survey):** 50 nests

**Adults:** 2

**Species:** Double-crested Cormorant
**Nests (Ground Survey):** 80
**Nests (Aerial Survey):** 75 nests
**Adults:** 113

**Species:** Western Grebe
**Adults:** 10

**Historical Data:**

Double-crested Cormorant

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Buffalo Lake 2 | SE10-41-21-W4 | 41 nests | 1992 | Red Deer NRS (1998); 140 adults, 121 young |

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**Location:** Buffalo Lake 3 - Island B
**Map:** 83A/7
**Legal:** W30-40-20-W4
**Section** W30 **TP** 40 **RGE** 20 **MER** W4
**UTME:** 372662
**UTMN:** 5814869

**Description:** normal water level; half forb/half dirt island; larger fledgling stage
**Notes:** 1998 Ground Survey; small rock east side lake; NE of Rochon Sands PP; X153

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/17
**Ground Check:** Yes

**Species:** American White Pelican
**Nests (Ground Survey):** 282
**Nests (Aerial Survey):** 100+ nests
**Adults:** 150

**Species:** California Gull
**Nests (Ground Survey):** 540
**Nests (Aerial Survey):** active
**Adults:** 500

**Species:** Common Tern
**Adults:** 1

**Species:** Double-crested Cormorant
**Nests (Ground Survey):** 126
**Nests (Aerial Survey):** active (small)
**Adults:** 20

**Species:** Forster's Tern
**Adults:** 1

**Species:** Franklin's Gull
**Adults:** 50

**Species:** Ring-billed Gull
**Nests (Ground Survey):** 80
**Nests (Aerial Survey):** active
**Adults:** 200

**Species:** Western Grebe
**Adults:** 10

**Historical Data:**

American White Pelican

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Buffalo Lake | | active | 1800s | whole lake; Vermeer (1969a), from Macoun and Thompson |

California Gull

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Buffalo Lake | | 7 nests | 1959 | PNRS (1998) |
| | | 300 adults | 1967 | PNRS (1998) |
| | | 100-500 nest | 1968 | whole lake; Vermeer (1970a); Brechtel, NRS Edmonton (1998) |
| | | 952 nests | 1977 | whole lake; Brechtel, NRS Edmonton (1998); Weseloh (1978) |

Ring-billed Gull

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Buffalo Lake | | 500-1000 nests | 1968 | whole lake; Vermeer (1970a); Brechtel, NRS Edmonton (1998) |
| | | 2000 nests | 1977 | Brechtel, NRS Edmonton (1998); Weseloh (1978); whole lake |
| Buffalo Lake 3 - Island B | 34-40-20-W4 | 210 ad, 47 yg | 1992 | Red Deer NRS (1998); small rock east side of lake |

**Location:** Buffalo Lake 4 - Island F
**Map:** 83A/7
**Legal:** SE26-40-21-W4
**Section** SE26 **TP** 40 **RGE** 21 **MER** W4
**UTME:** 370143
**UTMN:** 5814730

**Description:** normal water level; bare dirt, few forb island; no colony, no nests
**Notes:** 1998 Ground Survey; due W of Rochon Sands PP; X154

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/17
**Ground Check:** Yes

**Species:** Double-crested Cormorant
**Nests (Ground Survey):** 0; no nests found despite apparent nesting from aerial survey
**Nests (Aerial Survey):** active (small)
**Adults:** 0

**Species:** Western Grebe
**Adults:** 10

**Historical Data:**

Ring-billed Gull

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Buffalo Lake | | 500-1000 nest | 1968 | whole lake; Vermeer (1970a); Brechtel, NRS Edmonton (1998) |
| | | 2000 nests | 1976 | Brechtel, NRS Edmonton (1998); whole lake |
| Buffalo Lake 4 - Island F | SE26-40-21-W4 | 50 ad, 15 yg | 1992 | Red Deer NRS (1998); due W of Rochon Sands PP |

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**Location:** Buffalo Lake 5 - Island A
**Map:** 83A/7
**Legal:** E20-40-21-W4
**Section** E20 **TP** 40 **RGE** 21 **MER** W4
**UTME:** 365402
**UTMN:** 5812969

**Description:** normal water level; forb covered island; extrapolated from 80 X 5 m transect; fledgling stage
**Notes:** 1998 Ground Survey; X155; larger island SW of Heron colony

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/17
**Ground Check:** Yes

**Species:** American White Pelican
**Adults:** 5

**Species:** California Gull
**Nests (Ground Survey):** 200
**Nests (Aerial Survey):** active large
**Adults:** 300

**Species:** Double-crested Cormorant
**Adults:** 14

**Species:** Ring-billed Gull
**Nests (Ground Survey):** 1145
**Nests (Aerial Survey):** active large
**Adults:** 1800

**Historical Data:**

California Gull

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Buffalo Lake | | 7 nests | 1959 | PNRS (1998) |
| | | 300 adults | 1967 | PNRS (1998) |
| | | 100-500 nest | 1968 | whole lake; Vermeer (1970a); Brechtel, NRS Edmonton (1998) |
| Buffalo Lake | E20-40-21-W4 | 5000 adults; 2200 young | 1992 | Red Deer NRS (1998); off tip of Rochon Sands PP |

Ring-billed Gull

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Buffalo Lake | | 500-1000 nest | 1968 | whole lake; Vermeer (1970a); Brechtel, NRS Edmonton (1998) |
| | | 2000 nests | 1976 | Brechtel, NRS Edmonton (1998); whole lake |

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**Location:** Burnstick Lake (Birch Lake)
**Map:** 83B/2
**Legal:** SW18-35-6-W5
**Section** SW18 **TP** 35 **RGE** 6 **MER** W5
**UTME:** 647179
**UTMN:** 5764610

**Description:** normal water level; pine island; nestling 1/2-2/3 grown; surveyed from N shore
**Notes:** 1998 Ground Survey; BSOD (1998) 5397; NE of Burnstick Lake at Birch Lake (N end), Watchable Wildlife Area, 6 miles SW of Caroline

**Observers (Ground Survey):** Cliff Wallis
**Ground Survey Date:** 1998/06/20
**Ground Check:** Yes

**Species:** Great Blue Heron
**Nests (Ground Survey):** 35
**Nests (Aerial Survey):** 35 nests
**Adults:** 20

**Historical Data:**

Caspian Tern

- 2 adults reported on July 5, 1997 at Burnstick Lake x-35-6-W5 (Sherrington 1997a)

Great Blue Heron

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Burnstick Lake (Birch Lake) | 18-35-6-W4 | 10 nests | 1976 | Brechtel (1981); BSOD (1998) |
| | | 11 nests | 1978 | Brechtel (1981); BSOD (1998) |
| | | active | 1979 | Brechtel (1981); BSOD (1998) |
| | | 31 nests | 1997 | Bruns (1998); BSOD (1998) |

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**Location:** Bushy Head Lake
**Map:** 73D/15
**Legal:** 35-44-7-W4
**Section** 35 **TP** 44 **RGE** 7 **MER** W4
**UTME:** 506620
**UTMN:** 5854119

**Description:** normal water level; bare dirt, forb ring, low willow patch, island; late fledgling stage; extrapolated from 85 X 5 m transect; chicks > # nests-washed out?
**Notes:** 1998 Ground Survey; Map 73D/15; X157; 2 mi W of Wainwright

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/24
**Ground Check:** Yes

**Species:** California Gull
**Nests (Ground Survey):** 301
**Nests (Aerial Survey):** active large
**Adults:** 200

**Species:** Ring-billed Gull
**Nests (Ground Survey):** 905
**Nests (Aerial Survey):** active large
**Adults:** 600

**Historical Data:**

California Gull

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Bushy Head Lake | 35-44-7-W4 | 125 nests | 1990 | St. Paul NRS (1998) |
| | | 175 nests | 1991 | St. Paul NRS (1998) |

Ring-billed Gull

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Bushy Head Lake | 35-44-7-W4 | 350 nest | 1990 | St. Paul NRS (1998) |
| | | 400 nests | 1991 | St. Paul NRS (1998) |

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**Location:** Campbell = Tilley A Reservoir
**Map:** 72L/12 & 72L/5
**Legal:** NE6-18-12-W4
**Section** NE6 **TP** 18 **RGE** 12 **MER** W4
**UTME:** 454979

**UTMN:** 5593859

**Description:** normal water level; weed-grass with bare patches island, low willow patches and Manitoba maple
**Notes:** 1998 Ground Survey; Map 72L; X246; 3 mi NE of Tilley; SW corner of lake

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/10
**Ground Check:** Yes

**Species:** American White Pelican
**Nests (Ground Survey):** 0
**Nests (Aerial Survey):** not found
**Adults:** 20

**Species:** California Gull
**Nests (Ground Survey):** 207
**Nests (Aerial Survey):** active large
**Adults:** 300

**Species:** Double-crested Cormorant
**Nests (Ground Survey):** 68
**Nests (Aerial Survey):** 50-100 nests
**Adults:** 25

**Species:** Forster's Tern
**Adults:** 2

**Species:** Great Blue Heron
**Nests (Ground Survey):** 4
**Adults:** 1

**Species:** Ring-billed Gull
**Nests (Ground Survey):** 1242
**Nests (Aerial Survey):** active large
**Adults:** 700

**Species:** Western Grebe
**Adults:** 4

**Historical Data:**

American White Pelican

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Tilley A Reservoir | NE6-18-12-W4 | active | 1982-1983 | Ealey (1986) |

California Gull

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Louisiana Lakes S. Colony (erroneously) | erroneously as 7-17-10-W4 in BSOD | colony | 1977 | Brechtel, NRS Edmonton (1998); island, Cormorant colony; is Campbell Reservoir |
| Tilley A Reservoir | NE6-18-12-W4 | part of 1000 adults | 1978 | Brechtel, NRS Edmonton (1998); island at south end with Cormorants |

| | | | | |
|---|---|---|---|---|
| | | 2 colonies | 1979 | BSOD (1998) |

Double-crested Cormorant

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Tilley A | NE6-18-12-W4 | 0 nests | 1976 | Brechtel (1981) |
| Louisiana Lakes S. Colony | erroneously as 7-17-10-W4 in BSOD | 64 nests | 1977 | Brechtel (1981); island, gull colony; is Campbell Reservoir |
| | | 26 nests | 1978 | Brechtel (1981) |
| | | 31 nests | 1979 | Brechtel (1981) |
| | | 124 nests | 1980 | Brechtel (1981) |
| | | 40 nests | 1989 | Lethbridge NRS (1998) |

Great Blue Heron

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Louisiana Lakes S. Colony (erroneously) | | nesting | 1977 | Canadian Wildlife Service (1979b) |

Ring-billed Gull

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Louisiana Lakes S. Colony (erroneously) | erroneously as 7-17-10-W4 in BSOD | colony | 1977 | Brechtel, NRS Edmonton (1998); island, Cormorant colony; is Campbell Reservoir |
| Tilley A Reservoir | NE6-18-12-W4 | part of 1000 ads | 1978 | Brechtel, NRS Edmonton (1998); Cormorant island S end |
| | | 2 colonies | 1979 | BSOD (1998); same as 1978 + small island in NNE |

**Location:** Capt Eyre (SE) Lake
**Map:** 73D/7
**Legal:** 20-38-5-W4
**Section** 20 **TP** 38 **RGE** 5 **MER** W4
**UTME:** 521800
**UTMN:** 5792150

**Description:** in aspen, south shore of lake southeast of Capt Eyre Lake
**Notes:** 1998 Aerial Survey; Map 73D/7; XH29; 18 mi WSW of Provost

**Observers:** Wayne Smith, Cliff Wallis
**Aerial Survey Date:** May 29-31 1998
**Ground Check:** No

**Species:** Great Blue Heron
**Nests (Aerial Survey):** 5 nests

**Historical Data:**

Great Blue Heron

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Capt Eyre (SE) Lake | 20-38-5-W4 | surveyed (no data) | 1995 | St. Paul NRS (1998) |

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**Location:** Carvel Lake
**Map:** 83G/9
**Legal:** 29-52-2-W5
**Section** 29 **TP** 52 **RGE** 2 **MER** W5
**UTME:** 682000
**UTMN:** 5933200

**Description:** peninsula at south end of lake
**Notes:** 1998 Aerial Survey; Map 83G/9: XH30; 10 mi W of Stony Plain

**Observers:** Wayne Smith, Cliff Wallis
**Aerial Survey Date:** May 29-31 1998
**Ground Check:** No

**Species:** Great Blue Heron
**Nests (Aerial Survey):** 5 nests

**Historical Data:**

Great Blue Heron

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Carvel | 29-52-2-W5 | surveyed (? colony) | 1994 | St. Paul NRS (1998) |

**Location:** Chip Lake 1
**Map:** 83G/11
**Legal:** NE8-54-10-W5
**Section** NE8 **TP** 54 **RGE** 10 **MER** W5
**UTME:** 603894
**UTMN:** 5946668

**Description:** normal water level; scattered poplar-birch, some dead spars, dense tall shrub; 60 nests/45 occupied
**Notes:** 1998 Ground Survey; XH 31; w side, 4 mi N of Chip Lake town; small island to NW of large horseshoe shaped island

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/25
**Ground Check:** Yes

**Species:** Double-crested Cormorant
**Adults:** 30

**Species:** Franklin's Gull
**Adults:** 100

**Species:** Great Blue Heron
**Nests (Ground Survey):** 45
**Nests (Aerial Survey):** 25 nests
**Adults:** 8

**Historical Data:**

Great Blue Heron

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Chip Lake 1 | SE17-54-10-W5 | 36 nests | 1967 | Vermeer (1969b); Brechtel (1981) |
| | | 13 nests | 1968 | Brechtel (1981); Lynch (1968, 1971) |
| | | 15 nests | 1969 | Brechtel (1981); Lynch (1971) |
| | | 60 nests | 1976 | Brechtel (1981) |
| | | 48 nests | 1977 | Brechtel (1981) |
| | | 55 nests | 1978 | Brechtel (1981) |
| | | 50 nests | 1979 | Brechtel (1981) |
| | | 67 nests | 1980 | Brechtel (1981) |
| | | 50+ nests | 1981 | Anderson et al. (1981) |
| | | 40 nests | 1982-83 | MacCallum (1983) |
| | | 40 nests | 1984 | Edmonton NRS (1998) |
| | | 46 nests | 1989 | Edmonton NRS (1998) |

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**Location:** Chip Lake 2
**Map:** 83G/11
**Legal:** 16-54-10-W5
**Section** 16 **TP** 54 **RGE** 10 **MER** W5
**UTME:** 605654
**UTMN:** 5948040

**Description:** normal water level; nettle, dense willow, birch, tall shrub; late fledgling stage
**Notes:** 1998 Ground Survey; Map 83 G; X158 = XH31; 4 mi N of Chip Lake town; SE bigger island of 2 at lake

center

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/25
**Ground Check:** Yes

**Species:** American White Pelican
**Nests (Ground Survey):** 23
**Adults:** 17

**Species:** California Gull
**Nests (Ground Survey):** 400
**Nests (Aerial Survey):** part of 500 nests
**Adults:** 600

**Species:** Double-crested Cormorant
**Nests (Ground Survey):** 13
**Adults:** 30

**Species:** Ring-billed Gull
**Nests (Ground Survey):** 300
**Nests (Aerial Survey):** part of 500 nests
**Adults:** 450

**Historical Data:**

California Gull

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Chip Lake 2 | 16-54-10-W4 | 100-500 nests | 1967 | Vermeer (1970a) |
| | | active | 1968-69 | Lynch (1971); part of 3500 adult gulls |
| | | 1240 nests | 1976 | Weseloh (1978) |
| | | colony | 1977 | Ealey (1986) |

Ring-billed Gull

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Chip Lake 2 | SE17-54-10-W4 | colony | | Poston et al (1990); part of same site |
| Chip Lake 2 | 16-54-10-W4 | <100 nests | 1967 | Vermeer (1970a) |
| | | active | 1968-69 | Lynch (1971); part of 3500 adult gulls |
| | | 249 nests | 1976 | Weseloh (1978) |
| | | colony | 1977 | Ealey (1986) |

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**Location:** Chip Lake 3
**Map:** 83G/11
**Legal:** 16-54-10-W5
**Section** 16 **TP** 54 **RGE** 10 **MER** W5
**UTME:** 605544
**UTMN:** 5948264

**Description:** normal water level; rocky, forb/nettle; late fledgling stage
**Notes:** 1998 Ground Survey; new location; NW smaller island of 2 at lake center

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/25
**Ground Check:** Yes

**Species:** California Gull
**Nests (Ground Survey):** 160
**Nests (Aerial Survey):** active small
**Adults:** 200

**Species:** Double-crested Cormorant
**Nests (Ground Survey):** 93
**Nests (Aerial Survey):** 60 nests
**Adults:** 25

**Species:** Franklin's Gull
**Adults:** 500

**Species:** Herring Gull
**Adults:** 1

**Species:** Ring-billed Gull
**Nests (Ground Survey):** 40
**Nests (Aerial Survey):** active small
**Adults:** 50

**Historical Data:**

Ring-billed Gull

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Chip Lake 2 | SE17-54-10-W4 | colony | | Poston et al (1990); part of same site |
| Chip Lake 2 | 16-54-10-W4 | 100 nests | 1967 | Vermeer (1970a) |
| | | active | 1968-69 | Lynch (1971); part of 3500 adult gulls |
| | | colony | 1977 | Ealey (1986) |

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**Location:** Crawling Valley Reservoir 1 =Barkenhouse Lake
**Map:** 82I/16
**Legal:** S24-22-18-W4
**Section** S24 **TP** 22 **RGE** 18 **MER** W4
**UTME:** 403863
**UTMN:** 5637156

**Description:** high water; forb covered island, small patch of low willow; egg stage
**Notes:** 1998 Ground Survey; Dead Tree Island; X143; 10 mi NE of Bassano; small island at N end of island group

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/15
**Ground Check:** Yes

**Species:** American White Pelican
**Adults:** 30

**Species:** California Gull
**Nests (Ground Survey):** 91

**Adults:** 100

**Species:** Common Tern
**Adults:** 2

**Species:** Double-crested Cormorant
**Adults:** 10; no nesting evidence

**Historical Data (entire Crawling Valley Reservoir):**

- see after Crawling Valley Reservoir 7

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**Location:** Crawling Valley Reservoir 2 =Barkenhouse Lake
**Map:** 82I/16
**Legal:** E13-22-18-W4
**Section** E13 **TP** 22 **RGE** 18 **MER** W4
**UTME:** 403725
**UTMN:** 5636539

**Description:** high water level; bare dirt with small patches of low willow
**Notes:** 1998 Ground Survey; island NE center; X143; 10 mi NE of Bassano; big island in center of island group

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/15
**Ground Check:** Yes

**Species:** California Gull
**Nests (Ground Survey):** 50
**Nests (Aerial Survey):** active large
**Adults:** 100

**Species:** Ring-billed Gull
**Nests (Ground Survey):** 800
**Nests (Aerial Survey):** active large
**Adults:** 1500

**Historical Data (entire Crawling Valley Reservoir):**

- see after Crawling Valley Reservoir 7

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**Location:** Crawling Valley Reservoir 3 =Barkenhouse Lake
**Map:** 82I/16
**Legal:** E13-22-18-W4
**Section** E13 **TP** 22 **RGE** 18 **MER** W4
**UTME:** 403807
**UTMN:** 5636465

**Description:** high water level; forb cover with bare dirt center island; large fledgling stage
**Notes:** 1998 Ground Survey; island NE center; X143 and X144; 10 mi NE of Bassano; big island SE of #2

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/15
**Ground Check:** Yes

**Species:** California Gull
**Nests (Ground Survey):** 15
**Nests (Aerial Survey):** active large
**Adults:** 30

**Species:** Ring-billed Gull
**Nests (Ground Survey):** 350
**Nests (Aerial Survey):** active large
**Adults:** 1000

**Historical Data (entire Crawling Valley Reservoir):**

- see after Crawling Valley Reservoir 7

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**Location:** Crawling Valley Reservoir 4 =Barkenhouse Lake
**Map:** 82I/16
**Legal:** E13-22-18-W4
**Section** E13 **TP** 22 **RGE** 18 **MER** W4
**UTME:** 403728
**UTMN:** 5636384

**Description:** high water level; forb cover with a few low willows; late fledgling stage
**Notes:** 1998 Ground Survey; island NE center; X143; 10 mi NE of Bassano; small island S of #3

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/15
**Ground Check:** Yes

**Species:** Ring-billed Gull
**Nests (Ground Survey):** 47
**Nests (Aerial Survey):** active large
**Adults:** 150

**Historical Data (entire Crawling Valley Reservoir):**

- see after Crawling Valley Reservoir 7

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**Location:** Crawling Valley Reservoir 5 =Barkenhouse Lake
**Map:** 82I/16
**Legal:** E13-22-18-W4
**Section** E13 **TP** 22 **RGE** 18 **MER** W4
**UTME:** 403679
**UTMN:** 5636349

**Description:** high water level; forb and low willow island; late fledgling stage
**Notes:** 1998 Ground Survey; island NE center; X143; 10 mi NE of Bassano; small island SW of #4

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/15
**Ground Check:** Yes

**Species:** Ring-billed Gull
**Nests (Ground Survey):** 50

**Nests (Aerial Survey):** active large
**Adults:** 150

**Historical Data (entire Crawling Valley Reservoir):**

- see after Crawling Valley Reservoir 7

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**Location:** Crawling Valley Reservoir 6 =Barkenhouse Lake
**Map:** 82I/16
**Legal:** E13-22-18-W4
**Section** E13 **TP** 22 **RGE** 18 **MER** W4
**UTME:** 403737
**UTMN:** 5636244

**Description:** high water level; forb covered and low willow ringed island; egg stage
**Notes:** 1998 Ground Survey; island NE center; X143; 10 mi NE of Bassano; bigger island at south end of group of islands

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/15
**Ground Check:** Yes

**Species:** Ring-billed Gull
**Nests (Ground Survey):** 35
**Nests (Aerial Survey):** active large
**Adults:** 100

**Historical Data (entire Crawling Valley Reservoir):**

- see after Crawling Valley Reservoir 7

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**Location:** Crawling Valley Reservoir 7 =Barkenhouse Lake
**Map:** 82I/16
**Legal:** SE6-23-17-W4
**Section** SE6 **TP** 23 **RGE** 17 **MER** W4
**UTME:** 404600
**UTMN:** 5642000

**Description:** high water; low willow and grass island; late fledgling stage; observed from shore
**Notes:** 1998 Ground Survey; 2 tiny islands in NW part

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/18
**Ground Check:** Yes

**Species:** American White Pelican
**Adults:** 6

**Species:** California Gull
**Nests (Ground Survey):** 40
**Adults:** 40

**Species:** Common Tern
**Adults:** 1

**Species:** Double-crested Cormorant
**Adults:** 1; no nesting evidence

**Historical Data (entire Crawling Valley Reservoir):**

California and Ring-billed Gulls

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Barkenhouse Lake | NW30-22-17-W4 | colony | 1979 | Brechtel, NRS Edmonton (1998); island NE center (?different location than SE6-23-17-W4) |
| | | 3 nests | 1982 | BSOD (1998); California Gulls |

Double-crested Cormorant

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Barkenhouse Lake | 31-22-17-W4 | active | 1982 | Ealey (1986); Spare Tire Island (?different than SE6-23-17-W4) |
| Barkenhouse Lake | NW30-22-17-W4 | 0 nests | 1976 | Brechtel (1981); Ealey (1986); Dead Tree Island |
| | | 8 nests | 1977 | Brechtel (1981) |
| | | 18 nests | 1978 | Brechtel (1981) |
| | | 23 nests | 1979 | Brechtel (1981) |
| | | 46 nests | 1980 | Brechtel (1981) |
| | | 84 nests | 1982 | BSOD (1998) |
| | | 65 nests | 1989 | BSOD (1998) |
| | | active | 1990 | Brechtel, NRS Edmonton (1998) |

Ring-billed Gull

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Barkenhouse Lake | NW30-22-17-W4 | colony | 1979 | Brechtel, NRS Edmonton (1998); island NE center (different location than those above) |

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**Location:** Crimson Lake PP.
**Map:** 83B/6
**Legal:** SE27-40-8-W5
**Section** SE27 **TP** 40 **RGE** 8 **MER** W5
**UTME:** 631300
**UTMN:** 5814514

**Description:** normal water level; pine island/peninsula; 1/2-2/3 grown nestlings; surveyed from E shore
**Notes:** 1998 Ground Survey; island in small lake NW of Crimson Lake; XH36

**Observers (Ground Survey):** Cliff Wallis
**Ground Survey Date:** 1998/06/20
**Ground Check:** Yes

**Species:** Great Blue Heron

**Nests (Ground Survey):** 25
**Nests (Aerial Survey):** 25 nests
**Adults:** 15

**Historical Data:**

Great Blue Heron

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Crimson Lake P.P. | SW27-40-8-W5 | 25 nests | 1989 | island in small lake NW of Crimson Lake (Bruns 1998) |

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**Location:** Driedmeat Creek
**Map:** 83A/15
**Legal:** SW8-45-19-W4
**Section** SW8 **TP** 45 **RGE** 19 **MER** W4
**UTME:** 383500
**UTMN:** 5857800

**Description:** aspen on slope on north side of inlet/creek
**Notes:** 1998 Aerial Survey; BSOD (1998) 359-360--creek near lake, 8 miles SE of Camrose

**Observers:** Wayne Smith, Cliff Wallis
**Aerial Survey Date:** May 29-31 1998
**Ground Check:** No

**Species:** Great Blue Heron
**Nests (Aerial Survey):** <15 nests, active

**Historical Data:**

Great Blue Heron

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Driedmeat Creek | SW8-45-19-W4 | 10 nests | 1986 | BSOD (1998) files |
| | | 10 nests | 1987 | BSOD (1998) files |
| | | 16 nests | 1996 | Red Deer NRS (1998); winter survey |

**Location:** Erickson Lake
**Map:** 83J/10
**Legal:** 36-63-6-W5
**Section** 36 **TP** 63 **RGE** 6 **MER** W5
**UTME:** 644000
**UTMN:** 6041100

**Description:** normal water level; no access (water choked with lilies etc.); ground count from N shore incomplete; black spruce-birch island; 3/4 grown nestlings
**Notes:** 1998 Ground Survey; XH 46; 11 mi N of Ft. Assiniboine

**Observers (Ground Survey):** Cliff Wallis
**Ground Survey Date:** 1998/07/02
**Ground Check:** Yes

**Species:** Great Blue Heron
**Nests (Ground Survey):** 11 nests
**Nests (Aerial Survey):** 30 nests
**Adults:** 5

**Historical Data:**

Great Blue Heron

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Erickson Lake | 36-63-6-W5 | 13 nests | 1977 | Brechtel (1981) |
| | | 14 nests | 1978 | Brechtel (1981) |
| | | 9 nests | 1979 | Brechtel (1981) |
| | | 14 nests | 1980 | Brechtel (1981) |

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**Location:** Ferguson Lake
**Map:** 83M/7
**Legal:** 25-72-6-W6
**Section** 25 **TP** 72 **RGE** 6 **MER** W6
**UTME:** 385000
**UTMN:** 6126000

**Description:** small islands in marsh
**Notes:** 1998 Aerial Survey

**Observers:** Wayne Smith, Cliff Wallis
**Aerial Survey Date:** May 29-31, 1998
**Ground Check:** No

**Species:** California Gull
**Nests (Aerial Survey):** part of 200 nests

**Species:** Double-crested Cormorant
**Nests (Aerial Survey):** 60 nests

**Species:** Ring-billed Gull
**Nests (Aerial Survey):** part of 200 nests

California Gull

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Ferguson Lake | 25-72-6-W6 | 500 birds | 1983 | Ealey (1986) |

Ring-billed Gull

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Ferguson Lake | 25-72-6-W6 | 1000 adults at colony | 1983 | Ealey (1986); Poston et al (1990) |

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**Location:** Fincastle Lake 1
**Map:** 72E/13
**Legal:** N16-10-15-W4
**Section** N16 **TP** 10 **RGE** 15 **MER** W4
**UTME:** 429650
**UTMN:** 5519554

**Description:** high water; shrub with 3 tree patches, island; nestling stage; done from shore
**Notes:** 1998 Ground Survey; island, 8 mi E of Taber; XH48; small island close to S central side

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/19
**Ground Check:** Yes

**Species:** American White Pelican
**Adults:** 2

**Species:** Common Tern
**Adults:** 40

**Species:** Franklin's Gull
**Adults:** 100

**Species:** Great Blue Heron
**Nests (Ground Survey):** 12
**Nests (Aerial Survey):** 12 nests
**Adults:** 1

**Species:** Western Grebe
**Adults:** 5

**Historical Data:**

Caspian Tern

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Fincastle Lake | 16-10-15-W4 | 18 adults | 1996 | Sherrington (1996a) |

Great Blue Heron

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Fincastle Lake | 16-10-15-W4 | 7-11 nests | 1995 | PNRS (1998) |
| | | 10 nests | 1996 | PNRS (1998) |

**Location:** Fincastle Lake 2
**Map:** 72E/13
**Legal:** NW15-10-15-W4
**Section** NW15 **TP** 10 **RGE** 15 **MER** W4
**UTME:** 430400
**UTMN:** 5519950

**Description:** high water; grass with bare patches, island; nestling stage; done from shore
**Notes:** 1998 Ground Survey; Taber area; X164; 500 m NW 1

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/19
**Ground Check:** Yes

**Species:** Double-crested Cormorant
**Nests (Ground Survey):** 6
**Nests (Aerial Survey):** 6 nests
**Adults:** 4

**Historical Data:**

- none; new site

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**Location:** Fort Island
**Map:** 73E/14
**Legal:** 17-55-8-W4
**Section** 17 **TP** 55 **RGE** 8 **MER** W4
**UTME:** 490300
**UTMN:** 5956000

**Description:** poplars at east end of island
**Notes:** 1998 Aerial Survey; Map 73E/14; XH 49; N. Saskatchewan R 7 mi NNE of Myrnam

**Observers:** Wayne Smith, Cliff Wallis
**Aerial Survey Date:** May 29-31 1998
**Ground Check:** No

**Species:** Great Blue Heron
**Nests (Aerial Survey):** 4 nests

**Historical Data:**

Great Blue Heron

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Fort Island | 17-55-8-W4 | 20 nests | 1989 | St. Paul NRS (1998) |
| | | 6 nests | 1991 | St. Paul NRS (1998) |

**Location:** Frenchman Lake
**Map:** 73L/11
**Legal:** E16-64-10-W4
**Section** E16 **TP** 64 **RGE** 10 **MER** W4
**UTME:** 471365
**UTMN:** 6043043

**Description:** normal water, spruce in spruce-poplar woods; nestling stage; count lower than actual by 10-15%( nests in spruce are hard to see); back from shore
**Notes:** 1998 Ground Survey; Map 73L/11; XH50; Lauretta Island; 4 mi NNE of Helina

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/05
**Ground Check:** Yes

**Species:** Black Tern
**Adults:** 2

**Species:** Forster's Tern
**Adults:** 12

**Species:** Franklin's Gull
**Adults:** 10

**Species:** Great Blue Heron
**Nests (Ground Survey):** 30 nests
**Nests (Aerial Survey):** 50 nests
**Adults:** 40

**Historical Data:**

Great Blue Heron

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Frenchman Lake | E16-64-10-W4 | 7 nests | 1967 | Vermeer (1969b); Brechtel (1981) |
| | | 45 nests | 1976 | St. Paul NRS (1998); Brechtel (1981) |
| | | 20 nests | 1977 | St. Paul NRS (1998); Brechtel (1981) |
| | | 26 nests | 1978 | St. Paul NRS (1998); Brechtel (1981) |
| | | 20 nests | 1979 | St. Paul NRS (1998); Brechtel (1981) |
| | | 50 nests | 1980 | St. Paul NRS (1998); Brechtel (1981) |
| | | 26 nests | 1981 | St. Paul NRS (1998); Brechtel (1981) |
| | | 45 nests | 1983 | St. Paul NRS (1998) |
| | | 46 nests | 1985 | St. Paul NRS (1998) |
| | | 47 nests | 1988 | St. Paul NRS (1998) |
| | | 48 nests | 1989 | St. Paul NRS (1998) |
| | | 36 nests | 1992 | St. Paul NRS (1998) |
| | | 39 nests | 1993 | St. Paul NRS (1998) |

**Location:** Frog Lake 1
**Map:** 73E/16
**Legal:** 26-57-3-W4
**Section** 26 **TP** 57 **RGE** 3 **MER** W4
**UTME:** 543102
**UTMN:** 5978760

**Description:** low water; gravel sand shore, rest is forb grass + 24 small willow; egg stage
**Notes:** 1998 Ground Survey; Map 73E/16, new location at north end; 2 islands: NE most

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/06
**Ground Check:** Yes

**Species:** California Gull
**Nests (Ground Survey):** 120
**Nests (Aerial Survey):** part of 750 nests
**Adults:** 150

**Species:** Double-crested Cormorant
**Nests (Ground Survey):** 110
**Adults:** 200

**Species:** Herring Gull
**Nests (Ground Survey):** 60
**Nests (Aerial Survey):** part of 750 nests
**Adults:** 100

**Species:** Ring-billed Gull
**Nests (Ground Survey):** 2
**Nests (Aerial Survey):** part of 750 nests
**Adults:** 1

**Historical Data:**

- see Frog Lake 2

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**Location:** Frog Lake 2
**Map:** 73E/16
**Legal:** 26-57-3-W4
**Section** 26 **TP** 57 **RGE** 3 **MER** W4
**UTME:** 543367
**UTMN:** 5978337

**Description:** low water; bare rocky island; early nestling stage
**Notes:** 1998 Ground Survey; Map 73E/16, new location at north end; 2 islands; SE most

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/06
**Ground Check:** Yes

**Species:** American White Pelican
**Adults:** 12

**Species:** Common Tern
**Adults:** 5

**Species:** Double-crested Cormorant
**Nests (Ground Survey):** 1035
**Adults:** 300

**Historical Data (whole lake):**

California Gull

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Frog Lake | 2-57-3-W4 | 1500 nests | 1981 | St. Paul NRS (1998); different than 1998 |
| | | 150 nests | 1987 | St. Paul NRS (1998) |
| | | 200 nests | 1990 | St. Paul NRS (1998) |
| | | 300 nests | 1991 | St. Paul NRS (1998) |
| | | 0 nests | 1992 | St. Paul NRS (1998) |

Double-crested Cormorant

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Frog Lake | 2 or NW1-57-3-W4 | 2 nests | 1967 | Vermeer (1969a); different than 1998 |
| | | 92 nests | 1976 | St. Paul NRS (1998) |
| | | 152 nests | 1977 | St. Paul NRS (1998) |
| | | 212 nests | 1978 | St. Paul NRS (1998) |
| | | 277 nests | 1979 | St. Paul NRS (1998) |
| | | 285 nests | 1980 | St. Paul NRS (1998) |
| | | 650 nests | 1984 | St. Paul NRS (1998) |
| | | 800 nests | 1985 | St. Paul NRS (1998) |
| | | 2000 nests | 1987 | St. Paul NRS (1998) |
| | | 1125 nests | 1990 | St. Paul NRS (1998) |
| | | 1200 nests | 1991 | St. Paul NRS (1998) |
| | | 0 nests | 1992 | St. Paul NRS (1998) |
| | | surveyed (no data) | 1997 | St. Paul NRS (1998) |

Ring-billed Gull

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Frog Lake | 1-57-3-W4 | 200 nests | 1990 | St. Paul NRS (1998); Cormorant island (different than 1998) |
| | | 300 nests | 1991 | St. Paul NRS (1998) |
| | | 0 nests | 1992 | St. Paul NRS (1998) |
| Frog Lake | near 1-57-3-W4 | major colony | 1977 | St. Paul NRS (1998); islands near Cormorant island (different than 1998) |

**Location:** Frog Lake 3
**Map:** 73E/16
**Legal:** 26-57-3-W4
**Section** 26 **TP** 57 **RGE** 3 **MER** W4
**UTME:** 542726
**UTMN:** 5978991

**Description:** open birch-spruce woods; nestling stage
**Notes:** 1998 Ground Survey; Map 73E/16; XH51

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/06
**Ground Check:** Yes

**Species:** Great Blue Heron
**Nests (Ground Survey):** 56 nests
**Nests (Aerial Survey):** 50+ nests
**Adults:** 40

**Historical Data:**

Great Blue Heron

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Frog Lake | 27-57-3-W4 | 45 nests | 1967 | Brechtel (1981); Vermeer (1969b) |
| | | 100-120 nests | 1978 | Brechtel (1981); St. Paul NRS (1998) |
| | | 100-200 nests | 1979 | Brechtel (1981); St. Paul NRS (1998) |
| | | 30 nests | 1980 | Brechtel (1981); St. Paul NRS (1998) |
| | | 100 nests | 1981 | Brechtel (1981); St. Paul NRS (1998) |
| | | 50 nests | 1990 | St. Paul NRS (1998) |
| | | surveyed (no data) | 1992 | St. Paul NRS (1998) |
| | | surveyed (no data) | 1994 | St. Paul NRS (1998) |

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**Location:** Gambling Lake
**Map:** 83H/7
**Legal:** 20-50-20-W4
**Section** 20 **TP** 50 **RGE** 20 **MER** W4
**UTME:** 374750
**UTMN:** 5910200

**Description:** wooded island in west part of lake
**Notes:** 1998 Aerial Survey; Map 83H/7; XH52; 9 mi SW of Tofield

**Observers:** Wayne Smith, Cliff Wallis
**Aerial Survey Date:** May 29-31 1998
**Ground Check:** No

**Species:** Great Blue Heron
**Nests (Aerial Survey):** <10 active nests

**Historical Data:**

Great Blue Heron

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Gambling Lake | 20-50-20-W4 | surveyed (no data) | 1994 | St. Paul NRS (1998) |

---

**Location:** Gardiner Lake (North)
**Map:** 84H
**Legal:** 99-16-W4
**Section TP** 99 **RGE** 16 **MER** W4

**Description:** none provided
**Notes:** Fish and Wildlife 1998 Aerial Survey; Map 84 H; 3 mi NE of Namur Lake; X169

**Observers (Ground Survey):** John Martin
**Ground Survey Date:** 1998/06/09
**Ground Check:** Alberta Fish and Wildlife

**Species:** American White Pelican
**Nests (Aerial Survey):** no confirmation of nesting
**Adults:** 60 on lake

**Historical Data:**

American White Pelican

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Gardiner Lake (North) | x-98-16-W4 | 24 nests | 1975 | Ealey (1986) |

---

**Location:** Gordon Lake (Irma Island)
**Map:** 74D
**Legal:** 87-4-W4
**Section TP** 87 **RGE** 4 **MER** W4

**Description:** Irma Island
**Notes:** Fish and Wildlife 1998 Aerial Survey; possible nesting, no ground survey

**Observers (Aerial Survey):** John Martin, Alberta Fish and Wildlife
**Aerial Survey Date:** 1998/06/09
**Ground Check:** No

**Species:** American White Pelican
**Nests (Aerial Survey):** no confirmation of nesting
**Adults:** 50 on island

**Species:** Double-crested Cormorant
**Nests (Aerial Survey):** no confirmation of nesting
**Adults:** 30 on island

**Historical Data:**

- no historical records of colonial nesting birds

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**Location:** Grantham
**Map:** 72L/4
**Legal:** S25-13-15-W4
**Section** S25 **TP** 13 **RGE** 15 **MER** W4
**UTME:** 433700
**UTMN:** 5550900

**Description:** very small islands in middle of marsh at north end
**Notes:** 1998 Aerial Survey

**Observers:** Wayne Smith, Cliff Wallis
**Aerial Survey Date:** May 29-31 1998
**Ground Check:** No

**Species:** Double-crested Cormorant
**Nests (Aerial Survey):** <10 nests (apparently nesting, not confirmed)

**Historical Data:**

- new survey site

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**Location:** Grassy Lake 1
**Map:** 72E/13
**Legal:** 9-10-12-W4
**Section** 9 **TP** 10 **RGE** 12 **MER** W4
**UTME:** 458901
**UTMN:** 5517414

**Description:** normal water level; rocky-forb island
**Notes:** 1998 Ground Survey; W of 2 islands, tiny

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/19
**Ground Check:** Yes

**Species:** American White Pelican
**Nests (Ground Survey):** 0; no nests found despite apparent nesting from aerial survey
**Nests (Aerial Survey):** 8 nests
**Adults:** 8

**Species:** California Gull
**Adults:** 1

**Species:** Common Tern
**Nests (Ground Survey):** 15
**Adults:** 15

**Species:** Double-crested Cormorant
**Nests (Ground Survey):** 14
**Nests (Aerial Survey):** 15 nests
**Adults:** 18

**Historical Data:**

American White Pelican

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Grassy Lake | | less than 10 nests | 1990 | Federation of Alberta Naturalists (1998); whole lake |
| | | 11-50 nests (BBA range; not exact) | 1991 | Federation of Alberta Naturalists (1998); whole lake |

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**Location:** Grassy Lake 2
**Map:** 72E/13
**Legal:** E34-9-12-W4
**Section** E3 **TP** 9 **RGE** 12 **MER** W4
**UTME:** 460782
**UTMN:** 5513464

**Description:** normal water level; weed-forb island; egg stage
**Notes:** 1998 Ground Survey; SE and largest of 2 islands

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/19
**Ground Check:** Yes

**Species:** American White Pelican
**Nests (Ground Survey):** 2
**Adults:** 5

**Species:** California Gull
**Nests (Ground Survey):** 1548
**Nests (Aerial Survey):** 2000-3000 nests
**Adults:** 2000

**Species:** Common Tern
**Nests (Ground Survey):** 40
**Adults:** 40

**Species:** Double-crested Cormorant
**Nests (Ground Survey):** 78
**Nests (Aerial Survey):** 100+ nests
**Adults:** 30

**Species:** Ring-billed Gull
**Nests (Ground Survey):** 3726
**Nests (Aerial Survey):** 2000-3000 nests
**Adults:** 3000

**Historical Data:**

American White Pelican

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Grassy Lake | | less than 10 nests | 1990 | Federation of Alberta Naturalists (1998); whole lake |
| | | 11-50 nests (BBA range; not exact) | 1991 | Federation of Alberta Naturalists (1998); whole lake |

**Location:** Hastings Lake
**Map:** 83H/7
**Legal:** 18-51-20-W4
**Section** 18 **TP** 51 **RGE** 20 **MER** W4
**UTME:** 370570
**UTMN:** 5919319

**Description:** low water; aspen with dirt fringe; tree nests; egg stage
**Notes:** 1998 Ground Survey; X174; 8 mi E of Cooking Lake town; Double-crested Cormorant and Great Blue Heron tree nesting on north island; no colony at 370541 5919194 (S most)

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/08
**Ground Check:** Yes

**Species:** American White Pelican
**Adults:** 150 on ground survey; 620 on Elk Island National Park aerial survey
**Notes:** 1998 Ground Survey; 1998 Elk Island National Park Aerial Survey; 8 mi E of Cooking Lake town, S most island, not nesting; adult count has ranged from 2 in 1995 to 470 and 620 in 1997 and 1998 respectively

**Species:** Black Tern
**Adults:** 1

**Species:** Double-crested Cormorant
**Nests (Ground Survey):** 65
**Nests (Aerial Survey):** active
**Adults:** 70

**Species:** Franklin's Gull
**Adults:** 120

**Species:** Great Blue Heron
**Nests (Ground Survey):** 9
**Adults:** 5

**Species:** Western Grebe
**Adults:** 25

**Historical Data:**

American White Pelican

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Hastings Lake | 18-51-20-W4 | 10 nests | 1989 | St. Paul NRS (1998); Edmonton NRS (1998) |
| | | 0 nests | 1990, 1992 | St. Paul NRS (1998) |
| | | 50 nests? | 1997 (100 unhatched eggs found) | Edmonton NRS (1998) |

**Location:** Heart Lake
**Map:** 73M/5

**Legal:** 9-70-10-W4
**Section TP RGE MER**
**LONG:** 111.4739 = 111° 28' 24"
**LAT:** 54.0442 = 54° 2' 36"

**Description:** island in NE bay
**Notes:** Fish and Wildlife 1998 Aerial Survey; Map 73M/5

**Observers (Aerial Survey):** John Martin
**Ground Survey Date:** 1998/07/09
**Ground Check:** No

**Species:** Great Blue Heron
**Nests (Aerial Survey):** 40-50 active nests

**Historical Data:**

Double-crested Cormorant

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Heart Lake | 8-70-10-W4 | old nests found | 1996 | St. Paul NRS (1998); different than 1998 |

Great Blue Heron

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Heart Lake | 8-70-10-W4 | 30 nests | 1990 | St. Paul NRS (1998); mainland N end; different than 1998 |
| | | 33 nests | 1992 | St. Paul NRS (1998) |

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**Location:** Hubert Lake
**Map:** 83J/9
**Legal:** NW14-64-2-W5
**Section** NW14 **TP** 64 **RGE** 2 **MER** W5
**UTME:** 681500
**UTMN:** 6047000

**Description:** spruce island at southwest corner of lake
**Notes:** 1998 Aerial Survey; Map 83J/9; XH57; Bald Eagle nest at this lake

**Observers:** Wayne Smith, Cliff Wallis
**Aerial Survey Date:** May 29-31 1998
**Ground Check:** No

**Species:** Great Blue Heron
**Nests (Aerial Survey):** 3 active nests in 30 nests found

**Historical Data:**

Great Blue Heron

- 50 active nests in 1990 (Westworth and Associates 1990)

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Hubert Lake | NW14-64-2-W5 | 15 nests | 1977 | St. Paul NRS (1998); Brechtel (1981) |

| | | | | |
|---|---|---|---|---|
| | | 24 nests | 1978 | St. Paul NRS (1998); Brechtel (1981) |
| | | 26 nests | 1979 | St. Paul NRS (1998); Brechtel (1981) |
| | | 30 nests | 1980 | St. Paul NRS (1998); Brechtel (1981) |
| | | 35 nests | 1990 | St. Paul NRS (1998) |
| | | 26 nests | 1992 | St. Paul NRS (1998) |

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**Location:** Irricana (Salt) Lake
**Map:** 82P/5
**Legal:** NE11-27-26-W4
**Section** NE11 **TP** 27 **RGE** 26 **MER** W4
**UTME:** 322037
**UTMN:** 5685740

**Description:** normal water level; grassy peninsula; no sign of nesting
**Notes:** 1998 Ground Survey; Cormorant/Gull colony; X180; 4mi SE of Irricana; has been called Craigdhu Reservoir in past

**Observers (Ground Survey):** Cleve Wershler, Ray Wershler
**Ground Survey Date:** 1998/05/30
**Ground Check:** Yes

**Species:** California Gull
**Nests (Ground Survey):** 0
**Nests (Aerial Survey):** active (but not confirmed on ground survey)
**Adults:** 90

**Species:** Common Tern
**Adults:** 3

**Species:** Double-crested Cormorant
**Nests (Ground Survey):** 0
**Nests (Aerial Survey):** not found
**Adults:** 110

**Species:** Forster's Tern
**Adults:** 1

**Species:** Ring-billed Gull
**Nests (Ground Survey):** 0
**Nests (Aerial Survey):** active (but not confirmed on ground survey)
**Adults:** 50

**Historical Data:**

California Gull

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Irricana Lake | NE11-27-26-W4 | 1000-3000 nests | 1968 | Cormorant/Gull colony; Vermeer (1970a) |
| | | 1205 nests | 1976 | Brechtel, Edmonton NRS (1998); Weseloh (1978) |
| | | colony | 1977 | Brechtel, Edmonton NRS (1998) |
| | | colony | 1984 | Brechtel, Edmonton NRS (1998) |

Double-crested Cormorant

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Irricana Lake | NE11-27-26-W4 | 0 nests | 1967, 1970-1973 | Brechtel (1981) |
| | | 12 nests | 1974 | Brechtel (1981) |
| | | 14 nests | 1976 | Brechtel (1981) |
| | | 15 nests | 1977 | Brechtel (1981) |
| | | 18 nests | 1978 | Brechtel (1981) |
| | | 93 nests | 1980 | Brechtel (1981) |

Ring-billed Gull

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Irricana Lake | NE11-27-26-W4 | 1000 - 3000 nests | 1968 | Vermeer (1970a); Cormorant/Gull colony |
| | | 4812 nests | 1976 | Brechtel, Edmonton NRS (1998); Weseloh (1978) |
| | | colony | 1977 | Brechtel, Edmonton NRS (1998) |
| | | colony | 1984 | Brechtel, Edmonton NRS (1998) |

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**Location:** Island Lake
**Map:** 83I/13
**Legal:** NW30-67-23-W4
**Section** NW30 **TP** 67 **RGE** 23 **MER** W4
**UTME:** 338570
**UTMN:** 6078550

**Description:** normal water level; white spruce-poplar, some birch island; nests mainly in spruce; late nestling stage
**Notes:** 1998 Ground Survey; Map 83I/13; XH 59; 10 mi NW of Athabasca

**Observers (Ground Survey):** Cliff Wallis
**Ground Survey Date:** 1998/07/02
**Ground Check:** Yes

**Species:** Black Tern
**Adults:** 2

**Species:** Great Blue Heron
**Nests (Ground Survey):** 38
**Nests (Aerial Survey):** 20 nests
**Adults:** 17

**Historical Data:**

Great Blue Heron

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Island Lake | NE25-67-24-W4 | 10 nests | 1965 | St. Paul NRS (1998); Brechtel (1981) |
| | | 1 nest | 1967 | Vermeer (1969b); Brechtel (1981) |
| | | 15 nests | 1977 | St. Paul NRS (1998); Brechtel (1981) |
| | | 20 nests | 1978 | St. Paul NRS (1998); Brechtel (1981) |
| | | 26 nests | 1979 | St. Paul NRS (1998); Brechtel (1981) |
| | | 50 nests | 1980 | St. Paul NRS (1998); Brechtel (1981) |

| | | | | |
|---|---|---|---|---|
| | | 18 nests | 1981 | St. Paul NRS (1998); Brechtel (1981) |
| | | 35 nests | 1983 | St. Paul NRS (1998) |
| | | 24 nests | 1985 | St. Paul NRS (1998) |
| | | 28 nests | 1986 | St. Paul NRS (1998) |
| | | 25 nests | 1990 | St. Paul NRS (1998) |
| | | 35 nests | 1993 | St. Paul NRS (1998) |

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**Location:** Isle Lake
**Map:** 83G/10
**Legal:** NE21-53-6-W5
**Section** NE21 **TP** 53 **RGE** 6 **MER** W5
**UTME:** 644200
**UTMN:** 5940400

**Description:** wooded south shore of lake at extreme west end
**Notes:** 1998 Aerial Survey; XH61

**Observers (Aerial Survey):** Wayne Smith, Cliff Wallis
**Aerial Survey Date:** May 29-31, 1998
**Ground Check:** No

**Species:** Great Blue Heron
**Nests (Aerial Survey):** 25

**Historical Data:**

Great Blue Heron

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Isle Lake | 4-54-5-W5 | 5 nests | 1971 | St. Paul NRS (1998) |
| | | extinct | post 1971 | St. Paul NRS (1998) |
| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
| Isle Lake | 4-54-5-W5 | 0 nests | 1993 | St. Paul NRS (1998) |
| Isle Lake | 21-53-6-W5 | 22 nests | 1993 | St. Paul NRS (1998); above Isle Lake may have moved to this site |

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**Location:** Joseph Lake
**Map:** 83H/6
**Legal:** SE12-50-22-W4
**Section** SE12 **TP** 50 **RGE** 22 **MER** W4
**UTME:** 361309
**UTMN:** 5906956

**Description:** normal water level; grass-forb island, some rocky-sandy areas; half egg, half nestling stage
**Notes:** 1998 Ground Survey and 1998 Elk Island National Park aerial survey; Map 83H/6; X182; 3 mi NE of New Sarepta; west-central side

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1996/06/09
**Ground Check:** Yes

**Species:** American White Pelican
**Nests (Ground Survey):** 480
**Nests (Aerial Survey):** active
**Adults:** 400 (ground survey); 454 (+/- 75) adults counted in Elk Island National Park aerial survey
**Notes:** 1998 Ground Survey; 1998 Elk Island National Park Aerial Survey; adult count has ranged from 80 in 1994 to 454 in 1998

**Species:** California Gull
**Nests (Ground Survey):** 1500
**Nests (Aerial Survey):** active
**Adults:** 1000

**Species:** Double-crested Cormorant
**Nests (Ground Survey):** 390
**Nests (Aerial Survey):** active
**Adults:** 80

**Historical Data:**

American White Pelican

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Joseph Lake | 12-50-22-W4 | active | 1995 | Edmonton NRS (1998); St. Paul NRS (1998) |

California Gull

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Joseph Lake | 12-50-22-W4 | 500-1000 nests | 1968 | Brechtel, NRS Edmonton (1998); Vermeer (1970a); with Cormorants |
| | | 239 nests | 1977 | Brechtel, NRS Edmonton (1998); Weseloh (1978) |
| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
| Joseph Lake | | 218 nests | 1991 | St. Paul NRS (1998) |
| continued | | 450 nests | 1992 | St. Paul NRS (1998) |
| | | 500 nests | 1993 | St. Paul NRS (1998) |
| | | surveyed | 1995 | St. Paul NRS (1998) |

Double-crested Cormorant

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Joseph Lake | 12-50-22-W4 | 85 nests | 1991 | St. Paul NRS (1998) |
| | | 142 nests | 1992 | St. Paul NRS (1998) |
| | | 100 nests | 1993 | St. Paul NRS (1998) |
| | | surveyed (no data) | 1995 | St. Paul NRS (1998) |

Ring-billed Gull

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Joseph Lake | 12-50-22-W4 | 2 adults | 1993 | Edmonton NRS (1998); with Cormorants |

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**Location:** Kerr Lake
**Map:** 83I/9
**Legal:** 9-64-14-W4

**Section 9 TP 64 RGE 14 MER W4**
**UTME:** 430800
**UTMN:** 6041450

**Description:** normal water level; shrub cover with dead spruce spars on SE end-burnt last year; 90 tree, 90 ground nests; nestling stage
**Notes:** 1998 Ground Survey; Map 83I/9; X184=XH65; 15 mi S of Lac La Biche

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/05
**Ground Check:** Yes

**Species:** Black Tern
**Adults:** 25

**Species:** Double-crested Cormorant
**Nests (Ground Survey):** 180
**Nests (Aerial Survey):** 25 nests
**Adults:** 100

**Species:** Great Blue Heron
**Nests (Ground Survey):** 12
**Nests (Aerial Survey):** not found
**Adults:** 10

**Species:** Gull sp. (white-headed)
**Nests (Ground Survey):** 2
**Adults:** 2

**Historical Data:**

Double-crested Cormorant

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Kerr Lake | 9-64-14-W4 | 98 nests | 1991 | St. Paul NRS (1998) |
| | | 77 nests | 1993 | St. Paul NRS (1998) |
| | | surveyed (no data) | 1997 | St. Paul NRS (1998) |

Great Blue Heron

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Kerr Lake | 9-64-14-W4 | 15 nests | 1978 | Brechtel (1981); St. Paul NRS (1998) |
| | | 51 nests | 1979 | Brechtel (1981); St. Paul NRS (1998) |
| | | 51 nests | 1981 | Brechtel (1981); St. Paul NRS (1998) |
| | | 55 nests | 1985 | St. Paul NRS (1998) |
| | | 55 nests | 1988 | St. Paul NRS (1998) |
| | | 12 nests | 1991 | St. Paul NRS (1998) |
| | | 11 nests | 1993 | St. Paul NRS (1998) |
| | | surveyed (no data) | 1997 | St. Paul NRS (1998) |

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**Location:** Kitsim Reservoir 1
**Map:** 82I/8
**Legal:** NE19-17-16-W4

**Section** NE19 **TP** 17 **RGE** 16 **MER** W4
**UTME:** 425392
**UTMN:** 5589120

**Description:** high water; forb covered, some bare spots, 3 low willow patches; island has potential to become mid size colony; egg stage
**Notes:** 1998 Ground Survey; Brooks area; 7 mi E of Bow City; X185; 1 of 2 small islands E-central side of lake; 20-30 m from #2

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/11
**Ground Check:** Yes

**Species:** California Gull
**Nests (Ground Survey):** 3
**Nests (Aerial Survey):** active small
**Adults:** 10

**Historical Data:**

- see Kitsim Reservoir 7

**Location:** Kitsim Reservoir 2
**Map:** 82I/8
**Legal:** NE19-17-16-W4
**Section** NE19 **TP** 17 **RGE** 16 **MER** W4
**UTME:** 425417
**UTMN:** 5588761

**Description:** high water; forb covered, some bare spots, 3 low willow patches; half eggs, half late fledgling stage
**Notes:** 1998 Ground Survey; Brooks area; 7 mi E of Bow City; X185; 2 of 2 small islands E-central side of lake; 20-30 m from #1

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/11
**Ground Check:** Yes

**Species:** Ring-billed Gull
**Nests (Ground Survey):** 326
**Nests (Aerial Survey):** active small
**Adults:** 350

**Species:** California Gull
**Nests (Ground Survey):** 5
**Nests (Aerial Survey):** active small
**Adults:** 30

**Historical Data:**

- see Kitsim Reservoir 7

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**Location:** Kitsim Reservoir 3
**Map:** 82I/8
**Legal:** SE24-17-16-W4
**Section** SE24 **TP** 17 **RGE** 16 **MER** W4
**UTME:** 424271
**UTMN:** 5588594

**Description:** high water; half bare, half taller forbs; late fledgling stage
**Notes:** 1998 Ground Survey; Brooks area; 7 mi E of Bow City; X185; SE end of group of islands in centre

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/11
**Ground Check:** Yes

**Species:** California Gull
**Nests (Ground Survey):** 178
**Nests (Aerial Survey):** active small
**Adults:** 1050

**Species:** Ring-billed Gull
**Nests (Ground Survey):** 118
**Nests (Aerial Survey):** active small
**Adults:** 650

**Historical Data:**

- see Kitsim Reservoir 7

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**Location:** Kitsim Reservoir 4
**Map:** 82I/8
**Legal:** SE24-17-16-W4
**Section** SE24 **TP** 17 **RGE** 16 **MER** W4
**UTME:** 423554
**UTMN:** 5588439

**Description:** high water; mostly bare, patches of forbs, few low willow patches; late fledgling stage
**Notes:** 1998 Ground Survey; Brooks area; 7 mi E of Bow City; X185; photos 34-37; S most of 2 large islands of group in centre

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/11
**Ground Check:** Yes

**Species:** California Gull
**Nests (Ground Survey):** 299
**Nests (Aerial Survey):** active large
**Adults:** 500

**Species:** Common Tern
**Adults:** 6

**Species:** Double-crested Cormorant
**Nests (Ground Survey):** 217
**Adults:** 100

**Species:** Ring-billed Gull
**Nests (Ground Survey):** 897
**Nests (Aerial Survey):** active large
**Adults:** 1500

**Historical Data:**

- see Kitsim Reservoir 7

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**Location:** Kitsim Reservoir 5
**Map:** 82I/8
**Legal:** SW24-17-16-W4
**Section** SW24 **TP** 17 **RGE** 16 **MER** W4
**UTME:** 423503
**UTMN:** 5588590

**Description:** high water; half bare, half weeds, 1 small low willow patch; late fledgling stage
**Notes:** 1998 Ground Survey; Brooks area; 7 mi E of Bow City; X185; tiny island between 2 large islands in group of islands in centre

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/11
**Ground Check:** Yes

**Species:** California Gull
**Nests (Ground Survey):** 95
**Nests (Aerial Survey):** active small
**Adults:** 50

**Historical Data:**

- see Kitsim Reservoir 7

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**Location:** Kitsim Reservoir 6
**Map:** 82I/8
**Legal:** SW24-17-16-W4
**Section** SW24 **TP** 17 **RGE** 16 **MER** W4
**UTME:** 423504
**UTMN:** 5588691

**Description:** high water; mostly bare, patches of forbs, few low willow patches; late fledgling stage
**Notes:** 1998 Ground Survey; Brooks area; 7 mi E of Bow City; X185; N most of 2 large islands of group in centre

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/11
**Ground Check:** Yes

**Species:** California Gull
**Nests (Ground Survey):** 20
**Nests (Aerial Survey):** active large
**Adults:** 50

**Species:** Ring-billed Gull
**Nests (Ground Survey):** 1600
**Nests (Aerial Survey):** active large
**Adults:** 4000

**Historical Data:**

- see Kitsim Reservoir 7

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**Location:** Kitsim Reservoir 7
**Map:** 82I/8
**Legal:** SW24-17-16-W4
**Section** SW24 **TP** 17 **RGE** 16 **MER** W4
**UTME:** 423300
**UTMN:** 5588600

**Description:** high water; mostly bare, late fledgling stage; counted from water
**Notes:** 1998 Ground Survey; Brooks area; 7 mi E of Bow City; X185; N most of 2 large islands of group in centre

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/11
**Ground Check:** Yes

**Species:** California Gull

**Nests (Ground Survey):** 10
**Adults:** 25

**Species:** Double-crested Cormorant
**Nests (Ground Survey):** 30
**Adults:** 40

**Historical Data (whole reservoir):**

Caspian Tern

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Kitsim Reservoir | | 1 adult | 1997 | Sherrington (1997b); May 22 |

Double-crested Cormorant

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Kitsim Reservoir | | 45 nests | 1987 | PNRS (1998) |

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**Location:** Lac Canard
**Map:** 73E/14
**Legal:** SW36-56-10-W4
**Section** SW36 **TP** 56 **RGE** 10 **MER** W4
**UTME:** 476454
**UTMN:** 5969752

**Description:** low water; mostly willow with some spruce spars, bare center; nestling stage; ground nests
**Notes:** 1998 Ground Survey; Map 73E/14; island W side of narrows; X187=XH28; 7 mi SSE of St. Paul; burned

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/07
**Ground Check:** Yes

**Species:** American White Pelican
**Adults:** 40

**Species:** Double-crested Cormorant
**Nests (Ground Survey):** 583
**Nests (Aerial Survey):** 250 nests
**Adults:** 400

**Species:** Great Blue Heron
**Nests (Ground Survey):** 4
**Nests (Aerial Survey):** not found, burned
**Adults:** 2

**Species:** Ring-billed Gull
**Adults:** 20

**Historical Data:**

Double-crested Cormorant

| | | | | |
|---|---|---|---|---|
| Lac Canard | SW36-56-10-W4 | 0 nests | 1972, 1974 and 1975 | St. Paul NRS (1998) |

| | | | | |
|---|---|---|---|---|
| | | 100 nests | 1977 and 1978 | Brechtel, NRS Edmonton (1998); St. Paul NRS (1998) |
| | | 74 nests | 1980 | St. Paul NRS (1998) |
| | | 50 nests | 1981 | St. Paul NRS (1998) |
| | | 125 nests | 1982 | St. Paul NRS (1998) |
| | | 103 nests | 1983 | St. Paul NRS (1998) |
| | | 50 nests | 1987 | St. Paul NRS (1998) |
| | | 146 nests | 1990 | St. Paul NRS (1998) |
| | | 293 nests | 1992 | St. Paul NRS (1998) |
| | | 332 nests | 1993 | St. Paul NRS (1998) |
| | | surveyed (no data) | 1997 | St. Paul NRS (1998) |

Great Blue Heron

| | | | | |
|---|---|---|---|---|
| Lac Canard (Canard Lake) | SW36-56-10-W4 | 40 nests | 1972 | Brechtel, NRS Edmonton (1998); St. Paul NRS (1998); small island W side of narrows |
| | | 60 nests | 1974 | Brechtel, NRS Edmonton (1998); St. Paul NRS (1998) |
| | | 35 nests | 1977 | Brechtel, NRS Edmonton (1998); St. Paul NRS (1998) |
| | | 20 nests | 1978 | Brechtel, NRS Edmonton (1998); St. Paul NRS (1998) |
| | | 20 nests | 1979 | Brechtel, NRS Edmonton (1998); St. Paul NRS (1998) |
| | | 40 nests | 1980 | Brechtel, NRS Edmonton (1998); St. Paul NRS (1998) |
| | | 20 nests | 1981 | Brechtel, NRS Edmonton (1998); St. Paul NRS (1998) |
| | | 12 nests | 1982 | St. Paul NRS (1998) |
| | | 45 nests | 1983 | St. Paul NRS (1998) |
| | | 12 nests | 1987 | St. Paul NRS (1998) |
| | | 18 nests | 1990 | St. Paul NRS (1998) |
| | | 16 nests | 1992 | St. Paul NRS (1998) |
| | | 19 nests | 1993 | St. Paul NRS (1998) |
| | | surveyed (no data) | 1997 | St. Paul NRS (1998) |

**Location:** Lac la Biche 1
**Map:** 73L/12
**Legal:** 36-67-14-W4
**Section** 36 **TP** 67 **RGE** 14 **MER** W4
**UTME:** 436530
**UTMN:** 6077495

**Description:** normal water level; bare rocky; egg stage
**Notes:** 1998 Ground Survey; Map 83I/16; X189; center; N side Sir Winston Churchill PP, south island of 2; 1 island in low water year

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/03
**Ground Check:** Yes

**Species:** California Gull
**Nests (Ground Survey):** 1
**Nests (Aerial Survey):** active
**Adults:** 10

**Species:** Double-crested Cormorant
**Nests (Ground Survey):** 62
**Nests (Aerial Survey):** part of 150+ nests
**Adults:** 250

**Species:** Herring Gull
**Nests (Ground Survey):** 28
**Nests (Aerial Survey):** active
**Adults:** 60

**Historical Data:**

Double-crested Cormorant

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Lac La Biche | | active | 1919 | Farley (1922) |
| Lac La Biche 1/2 | 36-67-14-W4 | 120 nests | 1929 | Vermeer (1969a) |
| | | 8 nests | 1962 | Sadler & Myres (1976) |
| | | 13 nests | 1974 | St. Paul NRS (1998) |
| | | 1100 nests | 1987 | St. Paul NRS (1998) |
| | | 1500 nests | 1988 | St. Paul NRS (1998) |
| | | 600 nests | 1989 | St. Paul NRS (1998) |
| | | 1044 nests | 1990 | St. Paul NRS (1998) |
| | | 900 nests | 1991 | St. Paul NRS (1998) |
| | | 780 nests | 1992 | St. Paul NRS (1998) |
| | | 900 nests | 1993 | St. Paul NRS (1998) |
| | | surveyed (no data) | 1997 | St. Paul NRS (1998) |

**Location:** Lac la Biche 2
**Map:** 73L/13
**Legal:** 36-67-14-W4
**Section** 36 **TP** 67 **RGE** 14 **MER** W4
**UTME:** 436503
**UTMN:** 6077581

**Description:** normal water level; bare rocky
**Notes:** 1998 Ground Survey; Map 83I/16; X189; center; N side Sir Winston Churchill PP, north island of 2; 1 island in low water year

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/03
**Ground Check:** Yes

**Species:** American White Pelican
**Adults:** 12

**Species:** Double-crested Cormorant
**Nests (Ground Survey):** 350
**Nests (Aerial Survey):** part of 150+ nests
**Adults:** 250

**Species:** Herring Gull
**Nests (Ground Survey):** 22
**Nests (Aerial Survey):** active
**Adults:** 10

**Historical Data:**

California Gull

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Lac la Biche | | 500-1000 nests | 1968 | Vermeer (1970a); whole lake |
| Lac la Biche 1/2 | 36-67-14-W4 | 85 nests | 1990 | St. Paul NRS (1998) |
| | | 90 nests | 1991 | St. Paul NRS (1998) |
| | | 150 nests | 1992 | St. Paul NRS (1998) |
| | | 246 nests | 1993 | St. Paul NRS (1998) |
| | | surveyed (no data) | 1995 | St. Paul NRS (1998) |

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**Location:** Lac la Biche 3
**Map:** 83I/16
**Legal:** 4-68-14-W4
**Section TP RGE MER**
**UTME:** 430401
**UTMN:** 6079297

**Description:** normal water level: bare rocky S in discrete grassy spot back from shore, egg stage
**Notes:** 1998 Ground Survey; Map 83I/16; X190 (located at X188); smaller island NW of Black Fox Island

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/03
**Ground Check:** Yes

**Species:** American White Pelican
**Nests (Ground Survey):** 0; no nests found despite apparent nesting from aerial survey
**Nests (Aerial Survey):** 40 nests
**Adults:** 30

**Species:** California Gull
**Nests (Ground Survey):** 145
**Nests (Aerial Survey):** part of 250+ nests
**Adults:** 100

**Species:** Double-crested Cormorant
**Nests (Ground Survey):** 1552
**Nests (Aerial Survey):** 500+ nests
**Adults:** 200

**Species:** Great Blue Heron
**Nests (Ground Survey):** 25
**Adults:** 15

**Species:** Herring Gull
**Nests (Ground Survey):** 7
**Nests (Aerial Survey):** part of 250+ nests
**Adults:** 100

**Species:** Ring-billed Gull
**Nests (Ground Survey):** 490
**Nests (Aerial Survey):** part of 250+ nests
**Adults:** 500

**Species:** Western Grebe
**Adults:** 3

**Historical Data:**

American White Pelican

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Lac La Biche | | active | 1919 | Farley (1922) |

California Gull

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Lac la Biche | | 500-1000 nests | 1968 | Vermeer (1970a); whole lake |
| Lac la Biche | 18-68-14-W4 | 2000 nests | 1981 | St. Paul NRS (1998); note different location |
| | | surveyed (no data) | 1995 | St. Paul NRS (1998) |

Double-crested Cormorant

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Lac La Biche | | active | 1919 | Farley (1922) |
| Lac la Biche | 18-68-14-W4 | surveyed (no data) | 1995 | St. Paul NRS (1998); note different location |

Great Blue Heron

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Lac La Biche | | active | 1919 | Farley (1922) |
| Lac la Biche | 10-69-14-W4 | surveyed (no data) | 1991 | St. Paul NRS (1998); note different location |

Ring-billed Gull

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Lac la Biche | 4-68-14-W4 | surveyed (no data) | 1995 | St. Paul NRS (1998) |

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**Location:** Lac Ste Anne
**Map:** 83G/9
**Legal:** W15-54-3-W5
**Section** W15 **TP** 54 **RGE** 3 **MER** W5
**UTME:** 673643
**UTMN:** 5952700

**Description:** normal water level; big rocks, some forbs, *Phalaris & Scirpus*, island
**Notes:** 1998 Ground Survey; Map 83G/9,10; new; E end of lake

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/24
**Ground Check:** Yes

**Species:** American White Pelican
**Nests (Ground Survey):** 1
**Adults:** 0

**Species:** Black Tern
**Adults:** 2

**Species:** California Gull
**Nests (Ground Survey):** 400
**Nests (Aerial Survey):** part of 1000 nests
**Adults:** 500

**Species:** Common Tern
**Nests (Ground Survey):** 80
**Adults:** 80

**Species:** Franklin's Gull
**Adults:** 40

**Species:** Herring Gull
**Nests (Ground Survey):** 1
**Nests (Aerial Survey):** part of 1000 nests
**Adults:** 4

**Species:** Ring-billed Gull
**Nests (Ground Survey):** 450
**Nests (Aerial Survey):** part of 1000 nests

**Adults:** 600

**Species:** Western Grebe
**Adults:** 5

**Historical Data:**

California Gull

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Lac Ste Anne | x-54-4-W4 | 500 nests | 1991 | St. Paul NRS (1998); different than 1998 |

Ring-billed Gull

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Lac Ste Anne | x-54-4-W4 | 500 nests | 1991 | St. Paul NRS (1998); different than 1998 |

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**Location:** Lake Newell 1
**Map:** 72L/5
**Legal:** NE26-17-15-W4
**Section** NE26 **TP** 17 **RGE** 15 **MER** W4
**UTME:** 432091
**UTMN:** 5591001

**Description:** colony to the south
**Notes:** 1998 Ground Survey; 1 of 2 small islands in NW corner of lake, probably connected in drier periods

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/18
**Ground Check:** Yes

**Species:** American White Pelican
**Adults:** 35

**Species:** Caspian Tern
**Adults:** 1

**Species:** Common Tern
**Adults:** 20

**Species:** Ring-billed Gull
**Nests (Ground Survey):** 56
**Nests (Aerial Survey):** active
**Adults:** 250

**Historical Data:** - see Lake Newell 4

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**Location:** Lake Newell 2
**Map:** 72L/5
**Legal:** NE26-17-15-W4
**Section** NE26 **TP** 17 **RGE** 15 **MER** W4
**UTME:** 432039

**UTMN:** 5591187

**Description:** high water; grass-forb island; late fledgling stage; many dead chicks and flooded areas from recent storms; live chicks > # nests
**Notes:** 1998 Ground Survey; 2 of 2 small islands in NW corner of lake, probably connected in drier periods

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/18
**Ground Check:** Yes

**Species:** Ring-billed Gull
**Nests (Ground Survey):** 44
**Nests (Aerial Survey):** active
**Adults:** 300

**Historical Data:** - see Lake Newell 4

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**Location:** Lake Newell 3 - Unnamed Island
**Map:** 72L/5
**Legal:** NE36-16-15-W4
**Section** NE36 **TP** 16 **RGE** 15 **MER** W4
**UTME:** 433695
**UTMN:** 5582196

**Description:** high water; weedy island, willows, low trees, grass on S end; late fledgling stage; dead chicks/flooding from storms; extrapolated from 62 X 5 m
**Notes:** 1998 Ground Survey; X257, large island, SE corner

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/18
**Ground Check:** Yes

**Species:** California Gull
**Nests (Ground Survey):** 50
**Nests (Aerial Survey):** active
**Adults:** 200

**Species:** Ring-billed Gull
**Nests (Ground Survey):** 1206
**Nests (Aerial Survey):** active
**Adults:** 2000

**Historical Data:**

Double-crested Cormorant

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Lake Newell 3 | NE36-16-15-W4 | 0 nests | 1977 | Brechtel (1981) |
| | | 55 nests | 1978 | Brechtel (1981) |
| | | 48 nests | 1979 | Brechtel (1981) |
| | | 21 nests | 1980 | Brechtel (1981) |

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**Location:** Lake Newell 4 - Pelican Island
**Map:** 72L/5
**Legal:** SW2-17-15-W4
**Section** SW2 **TP** 17 **RGE** 15 **MER** W4
**UTME:** 431192
**UTMN:** 5583493

**Description:** high water; rocky island; egg stage
**Notes:** 1998 Ground Survey; island, Cormorant/Gull colony; X195, SW corner

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/18
**Ground Check:** Yes

**Species:** American White Pelican
**Nests (Ground Survey):** 21
**Nests (Aerial Survey):** active
**Adults:** 150

**Species:** California Gull
**Nests (Ground Survey):** 100
**Nests (Aerial Survey):** 1000 nests
**Adults:** 200

**Species:** Caspian Tern
**Nests (Ground Survey):** 74
**Adults:** 80

**Species:** Double-crested Cormorant
**Nests (Ground Survey):** 1077
**Adults:** 100

**Historical Data:**

American White Pelican

- colony established very soon after the reservoir was formed (Randall 1946)

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Lake Newell 4 | SW2-17-15-W4 | 160-170 nests | 1945 | PNRS (1998); Randall (1946) |
| | | 157 nests | 1951 | Soper (1952) |
| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
| Lake Newell 4 | | 20 adults | 1963 | Lies and Behle (1966) |
| continued | | 27 nests | 1966 | Vermeer (1969a) |
| | | 24 nests | 1977 | Brechtel, NRS Edmonton (1998) |
| | | 8 nests | 1983 | Ealey (1986) |
| | | 106 nests | 1989 | Brechtel, NRS Edmonton (1998) |

California Gull

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Lake Newell | w of Goose Island | 150 pairs | 1926 | Munro (1927) |
| | | active | 1945 | Randall (1946) |
| Lake Newell | SW2-17-15-W4 | 2580 nests | 1951 | Soper (1952) |
| | | 1000 nests | 1965 | PNRS (1998) |

| | | | | |
|---|---|---|---|---|
| | | 500-1000 nests | 1968 | whole lake; Vermeer (1970a); Brechtel, NRS Edmonton (1998) |
| | | 565 nests | 1976 | Weseloh (1978); whole lake |
| | | colony | 1977 | Brechtel, NRS Edmonton (1998) |
| | | colony | 1979 | BSOD (1998) |

Caspian Tern

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Lake Newell | x-17-15-W4 | less than 10 nests | n.d. | Federation of Alberta Naturalists (1998); nest with eggs |
| | | 1 adult | 1993 | Sherrington (1993a); May 16-19 |
| | | 4 adults | 1994 | Sherrington (1994a); August 6-9 |

Double-crested Cormorant

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Lake Newell | SW2-17-15-W4 | 25 pairs | 1945 | Randall (1945) |
| | | 37 nests | 1951 | Soper (1952); Brechtel (1981) |
| | | 31 nests | 1957 | Brechtel (1981) |
| | | 30-50 nests | 1964 | Brechtel (1981); PNRS (1998) |
| | | 60-150 nests | 1965 | Brechtel (1981) |
| | | 100-150 nests | 1966 | Brechtel (1981) |
| | | 148 nests | 1967 | Brechtel (1981); Vermeer (1969a) |
| | | 232 nests | 1969 | Brechtel (1981) |
| | | 444 nests | 1971 | Brechtel (1981) |
| | | 564 nests | 1976 | Brechtel (1981) |
| | | 665 nests | 1977 | Brechtel (1981) |
| | | 595 nests | 1978 | Brechtel (1981) |
| | | 723 nests | 1979 | Brechtel (1981) |
| | | 777 nests | 1980 | Brechtel (1981) |
| | | active | 1989 | Brechtel, NRS Edmonton (1998) |
| | | 300 adults | 1995 | PNRS (1998) |

Ring-billed Gull

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Lake Newell | Goose Island | 100 pairs | 1926 | Munro (1927) |
| | | active | 1945 | Randall (1945) |
| Lake Newell | SW2-17-15-W4 | 1930 nests | 1951 | Soper (1952) |
| | | 3000+ nests | 1968 | whole lake; Vermeer (1970a); Brechtel, NRS Edmonton (1998) |
| | | 6091 nests | 1976 | Weseloh (1978); whole lake |
| | | 5232 nests | 1977 | Nordstrom (1978); whole lake; major colony to SW of SW2-17-15-W4 |
| | | 4 colonies | 1979 | BSOD (1998); 4 islands |

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**Location:** Lake Newell 5
**Map:** 72L/5

**Legal:** SW2-17-15-W4
**Section** SW2 **TP** 17 **RGE** 15 **MER** W4
**UTME:** 431357
**UTMN:** 5583206

**Description:** high water; sage/grass with moderate height willow, scattered poplar, island
**Notes:** 1998 Ground Survey; island, big island SE and close to Pelican Island; herons at nestling stage

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/18
**Ground Check:** Yes

**Species:** Common Tern
**Adults:** 3

**Species:** Great Blue Heron
**Nests (Ground Survey):** 15
**Adults:** 4

**Species:** Western Grebe
**Adults:** 20

**Historical Data:**

Great Blue Heron -- apparently new location; all Lake Newell historical data is under Lake Newell 8

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**Location:** Lake Newell 6 - Unnamed Island
**Map:** 72L/5
**Legal:** SE35-16-15-W4
**Section** SE35 **TP** 16 **RGE** 15 **MER** W4
**UTME:** 432007
**UTMN:** 5581905

**Description:** high water; half dirt/low willow, island; late fledgling stage; many dead chicks and flooded areas from recent storms
**Notes:** 1998 Ground Survey; X258, SW corner, tiny island

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/18
**Ground Check:** Yes

**Species:** Ring-billed Gull
**Nests (Ground Survey):** 25
**Nests (Aerial Survey):** active (small)
**Adults:** 80

**Historical Data:**

Double-crested Cormorant

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Lake Newell 6 | SE35-16-15-W4 | 0 nests | 1978-1979 | Brechtel (1981) |
| | | 6 nests | 1980 | Brechtel (1981) |

**Location:** Lake Newell 7 - Unnamed Island
**Map:** 72L/5
**Legal:** 30-17-15-W4
**Section** 30 **TP** 17 **RGE** 15 **MER** W4
**UTME:** 435300
**UTMN:** 5590300

**Description:** XH69, small trees on island
**Notes:** 1998 Aerial Survey

**Observers (Aerial Survey):** Wayne Smith, Cliff Wallis
**Ground Survey Date:** 1998/05/29
**Ground Check:** No

**Species:** Great Blue Heron
**Nests (Aerial Survey):** 10+, 2 occupied
**Adults:** 2

**Historical Data:**

Great Blue Heron -- apparently new location; all Lake Newell historical data is under Lake Newell 8

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**Location:** Lake Newell 8 - Unnamed Island
**Map:** 72L/5
**Legal:** 30-17-15-W4
**Section** 30 **TP** 17 **RGE** 15 **MER** W4
**UTME:** 435200
**UTMN:** 5590850

**Description:** north of XH69, small trees on island
**Notes:** 1998 Aerial Survey

**Observers (Aerial Survey):** Wayne Smith, Cliff Wallis
**Ground Survey Date:** 1998/05/29
**Ground Check:** No

**Species:** Great Blue Heron
**Nests (Aerial Survey):** <10, 1 occupied
**Adults:** 1

**Historical Data:**

Great Blue Heron -- apparently new location

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Lake Newell | NE36-16-15-W4 | unoccupied | 1979 | Brechtel (1981); different location; old nests found |
| | | 1 nest | 1980 | Brechtel (1981) |
| | | 1 nest | 1982 | BSOD (1998) |
| Lake Newell | 18-17-14-W4 | 9 nests | 1982 | BSOD (1998); different location |
| Lake Newell | 30-17-14-W4 | 5 nests | 1982 | BSOD (1998) |
| Lake Newell | | 10 + 3 nests | 1995 | PNRS (1998); no locations given |

**Location:** Langdon Reservoir 1
**Map:** 82I/13
**Legal:** SW36-22-27-W4
**Section** SW36 **TP** 22 **RGE** 27 **MER** W4
**UTME:** 315277
**UTMN:** 5642939

**Description:** high water; grass-forb island; late fledgling; extrapolated from 46 and 67 X 5 m transects
**Notes:** 1998 Ground Survey; NW of 7 islands south

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/29
**Ground Check:** Yes

**Species:** California Gull
**Nests (Ground Survey):** 1015
**Nests (Aerial Survey):** active large
**Adults:** 600

**Species:** Double-crested Cormorant
**Adults:** 10

**Historical Data:**

- new survey location

**Location:** Langdon Reservoir 2
**Map:** 82I/13
**Legal:** SW36-22-27-W4
**Section** SW36 **TP** 22 **RGE** 27 **MER** W4
**UTME:** 315410
**UTMN:** 5643080

**Description:** high water; grass-forb island; late fledgling; extrapolated from 54 X 5 m transect
**Notes:** 1998 Ground Survey; 1 of 7 islands south

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/29
**Ground Check:** Yes

**Species:** California Gull
**Nests (Ground Survey):** 513
**Nests (Aerial Survey):** active large
**Adults:** 600

**Historical Data:**

- new survey location

**Location:** Langdon Reservoir 3
**Map:** 82I/13
**Legal:** SW36-22-27-W4
**Section** SW36 **TP** 22 **RGE** 27 **MER** W4
**UTME:** 315416
**UTMN:** 5642883

**Description:** high water; half bare dirt, half grass island; late fledgling; extrapolated from 100 X 5 m transect; chicks > # nests (many washed out)
**Notes:** 1998 Ground Survey; 1 of 7 islands south near NE of group

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/29
**Ground Check:** Yes

**Species:** American White Pelican
**Adults:** 37

**Species:** California Gull
**Nests (Ground Survey):** 1494
**Nests (Aerial Survey):** active large
**Adults:** 1000

**Species:** Double-crested Cormorant
**Nests (Ground Survey):** 128
**Adults:** 30

**Historical Data:**

- new survey location

**Location:** Langdon Reservoir 4
**Map:** 82I/13
**Legal:** SW36-22-27-W4
**Section** SW36 **TP** 22 **RGE** 27 **MER** W4
**UTME:** 315417
**UTMN:** 5642793

**Description:** high water; half bare dirt, half grass island; late fledgling; extrapolated from 54 X 5 m transect
**Notes:** 1998 Ground Survey; 1 of 7 islands south

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/29
**Ground Check:** Yes

**Species:** California Gull
**Nests (Ground Survey):** 269
**Adults:** 200

**Species:** Ring-billed Gull
**Nests (Ground Survey):** 943
**Adults:** 700

**Historical Data:**

- new survey location

**Location:** Langdon Reservoir 5
**Map:** 82I/13
**Legal:** SW36-22-27-W4
**Section** SW36 **TP** 22 **RGE** 27 **MER** W4
**UTME:** 315474
**UTMN:** 5642513

**Description:** high water; grass island; late fledgling; extrapolated from 58 X 5 m transect
**Notes:** 1998 Ground Survey; 1 of 7 islands south

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/29
**Ground Check:** Yes

**Species:** California Gull
**Nests (Ground Survey):** 218
**Adults:** 200

**Species:** Ring-billed Gull
**Nests (Ground Survey):** 544
**Adults:** 500

**Historical Data:**

- new survey location

**Location:** Langdon Reservoir 6
**Map:** 82I/13
**Legal:** SW36-22-27-W4
**Section** SW36 **TP** 22 **RGE** 27 **MER** W4
**UTME:** 315770
**UTMN:** 5642560

**Description:** high water; grass-weed island; late fledgling; parts flooded, lots of washed out nests
**Notes:** 1998 Ground Survey; 1 of 7 islands south

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/29
**Ground Check:** Yes

**Species:** California Gull
**Nests (Ground Survey):** 250
**Adults:** 200

**Historical Data:**

- new survey location

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**Location:** Little Bow Reservoir 1
**Map:** 82I/2
**Legal:** NW28-14-20-W4
**Section** NW28 **TP** 14 **RGE** 20 **MER** W4
**UTME:** 379935

**UTMN:** 5562152

**Description:** normal water level; bare dirt-some forbs, island; late fledgling stage
**Notes:** 1998 Ground Survey; SE most of 5 small islands at north end; X200; 10 mi S of Lomond

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/21
**Ground Check:** Yes

**Species:** American White Pelican
**Nests (Aerial Survey):** active
**Adults:** 10

**Species:** California Gull
**Nests (Ground Survey):** 26
**Nests (Aerial Survey):** active
**Adults:** 40

**Species:** Double-crested Cormorant
**Nests (Ground Survey):** 0; no nests found despite apparent nesting from aerial survey
**Nests (Aerial Survey):** active
**Adults:** 15

**Historical Data:**

- see Little Bow Reservoir 4
**Location:** Little Bow Reservoir 2
**Map:** 82I/2
**Legal:** NW28-14-20-W4
**Section** NW28 **TP** 14 **RGE** 20 **MER** W4
**UTME:** 379780
**UTMN:** 5562095

**Description:** normal water level; forb-weed, island; late fledgling stage
**Notes:** 1998 Ground Survey; SW most and larger of 5 small islands at north end; X200; 10 mi S of Lomond

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/21
**Ground Check:** Yes

**Species:** California Gull
**Nests (Ground Survey):** 90
**Nests (Aerial Survey):** active
**Adults:** 30

**Species:** Ring-billed Gull
**Nests (Ground Survey):** 5
**Nests (Aerial Survey):** active
**Adults:** 10

**Historical Data:**

- see Little Bow Reservoir 4

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**Location:** Little Bow Reservoir 3

**Map:** 82I/2
**Legal:** NW28-14-20-W4
**Section** NW28 **TP** 14 **RGE** 20 **MER** W4
**UTME:** 379656
**UTMN:** 5562381

**Description:** normal water level; bare dirt-forb, island; late fledgling stage
**Notes:** 1998 Ground Survey; tiny, NW most of 5 small islands at north end; X200; 10 mi S of Lomond

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/21
**Ground Check:** Yes

**Species:** California Gull
**Nests (Ground Survey):** 37
**Nests (Aerial Survey):** active
**Adults:** 125

**Historical Data:**

- see Little Bow Reservoir 4

**Location:** Little Bow Reservoir 4
**Map:** 82I/2
**Legal:** NW28-14-20-W4
**Section** NW28 **TP** 14 **RGE** 20 **MER** W4
**UTME:** 379769
**UTMN:** 5562553

**Description:** normal water level; bare dirt-forb, island; late fledgling stage
**Notes:** 1998 Ground Survey; NE most of 5 small islands at north end; X200; 10 mi S of Lomond

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/21
**Ground Check:** Yes

**Species:** California Gull
**Nests (Ground Survey):** 42
**Nests (Aerial Survey):** active
**Adults:** 100

**Species:** Double-crested Cormorant
**Nests (Ground Survey):** 26
**Nests (Aerial Survey):** active
**Adults:** 15

**Species:** Ring-billed Gull
**Nests (Ground Survey):** 42
**Nests (Aerial Survey):** active
**Adults:** 100

**Historical Data:**

California Gull

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Little Bow Reservoir | NW28-14-20-W4 | colony | 1965 | PNRS (1998) |
| | | 29 nests | 1969 | PNRS (1998) |
| | | 21 nests | 1972 | PNRS (1998) |
| | | colony | 1977 | Brechtel, NRS Edmonton (1998); island, Cormorant/Gull |
| | | 2 colonies | 1978 | BSOD (1998) |
| | | 2 colonies | 1979 | BSOD (1998); colonies on 2 islands |
| | | small part of 100-200 pairs | 1980 | Ealey (1986) |

Double-crested Cormorant

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Little Bow Reservoir | NW28-14-20-W4 | 0 nests | 1964 | Brechtel (1981) |
| | | 4 nests | 1965 | Brechtel (1981) |
| | | 2 nests | 1966 | Brechtel (1981) |
| | | 1 nest | 1968 | Brechtel (1981) |
| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
| Little Bow Reservoir | | 7 nests | 1969 | Brechtel (1981) |
| continued | | 6 nests | 1970 | Brechtel (1981) |
| | | 3-12 nests | 1972 | Brechtel (1981) |
| | | 17 nests | 1976 | Brechtel (1981) |
| | | 25 nests | 1977 | Brechtel (1981) |
| | | 41 nests | 1978 | Brechtel (1981) |
| | | 10 nests | 1979 | Brechtel (1981) |
| | | 13 nests | 1980 | Brechtel (1981) |
| | | active | 1990 | Brechtel, NRS Edmonton (1998) |

Ring-billed Gull

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Little Bow Reservoir | NW28-14-20-W4 | 4 nests | 1965 | PNRS (1998) |
| | | 25 nests | 1969 | PNRS (1998) |
| | | colony | 1977 | Brechtel, NRS Edmonton (1998); island, Cormorant/Gull |
| | | colony | 1978 | BSOD (1998) |
| | | 2 colonies | 1979 | BSOD (1998); on 2 islands |
| | | most of 100-200 pairs | 1980 | Ealey (1986) |

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**Location:** Little Fish Lake
**Map:** 82P/8
**Legal:** NW4-28-16-W4
**Section** NW4 **TP** 28 **RGE** 16 **MER** W4
**UTME:** 416067
**UTMN:** 5691148

**Description:** low water; bare, rocky island with some forbs; egg stage, apparently deserted
**Notes:** 1998 Ground Survey; east side of lake

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/17
**Ground Check:** Yes

**Species:** American White Pelican
**Nests (Ground Survey):** 2
**Nests (Aerial Survey):** active small
**Adults:** 0

**Species:** California Gull
**Nests (Ground Survey):** 876
**Nests (Aerial Survey):** active small
**Adults:** 1000

**Historical Data:**

- new colony locations

**Location:** Lost Lake
**Map:** 82I/1
**Legal:** SE7-14-17-W4
**Section** SE7 **TP** 14 **RGE** 17 **MER** W4
**UTME:** 406903
**UTMN:** 5556222

**Description:** nesting on island with other species
**Notes:** 1998 Ground Survey; north centre, small island; near Vauxhall; X201

**Observers (Ground Survey):** Cleve Wershler, Ray Wershler
**Ground Survey Date:** 1998/05/31
**Ground Check:** Yes

**Species:** American White Pelican
**Adults:** 4
**Notes:** 1998 Ground Survey; north centre

**Species:** Black Tern
**Adults:** 10 + 5 (north centre)

**Species:** California Gull
**Nests (Ground Survey):** 0
**Nests (Aerial Survey):** active; but not confirmed on ground survey
**Adults:** 8

**Species:** Caspian Tern
**Nests (Ground Survey):** 1
**Nests (Aerial Survey):** 1 + 2 pairs
**Adults:** 2 + 9

**Species:** Common Tern
**Nests (Ground Survey):** 57
**Adults:** 110

**Species:** Double-crested Cormorant
**Nests (Ground Survey):** 22-28
**Nests (Aerial Survey):** 30+

**Adults:** 35-40

**Species:** Forster's Tern
**Adults:** 1

**Species:** Ring-billed Gull
**Nests (Ground Survey):** 1
**Nests (Aerial Survey):** active
**Adults:** 62

**Historical Data:**

California Gull

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Lost Lake | 6-14-17-W4 | 8 nests | 1993 | PNRS (1998); island |

Caspian Tern

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Lost Lake | 6-14-17-W4 | 2 nests | 1991 | Koes and Taylor (1991); PNRS (1998); island |
| | | confirmed nesting | 1992 | Koes and Taylor (1992) |
| | | 15 nests, 37 adults | 1993 | Koes and Taylor (1993); BSOD (1998) |
| | | 10 nests, 40 adults | 1994 | Sherrington (1994b); Lethbridge NRS (1998) |
| | | 20 nests, 20-54 adults | 1995 | Sherrington (1995a); Lethbridge NRS (1998) |
| | | 14 adults | 1997 | Sherrington (1997d) |

Double-crested Cormorant

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Lost Lake | 6-14-17-W4 | active | 1991 | Lethbridge NRS (1998) |
| | | 30 nests | 1993 | PNRS (1998) |
| | | 20 nests | 1994 | PNRS (1998) |
| | | 30 nests | 1995 | PNRS (1998) |
| | | 25 nests | 1996 | PNRS (1998) |

Ring-billed Gull

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Lost Lake | 6-14-17-W4 | colony | 1993 | PNRS (1998); island |
| | | 10 nests | 1994 | PNRS (1998) |
| | | 20 nests | 1995 | PNRS (1998) |

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**Location:** Lower Therien Lake 1
**Map:** 73E/14
**Legal:** S23-57-10-W4
**Section** S23 **TP** 57 **RGE** 10 **MER** W4
**UTME:** 475018
**UTMN:** 5976220

**Description:** low water; sandy rocky shore, grass-forb covered island; early fledgling stage
**Notes:** 1998 Ground Survey; Map 73E/14; X205; 4 mi SW of St. Paul

**Observers (Ground Survey):** Wayne Smith, Ray Wershler

**Ground Survey Date:** 1998/06/07
**Ground Check:** Yes

**Species:** American White Pelican
**Nests (Ground Survey):** 55
**Nests (Aerial Survey):** active
**Adults:** 130

**Species:** Black Tern
**Adults:** 50

**Species:** California Gull
**Nests (Ground Survey):** 600
**Adults:** 1000

**Species:** Common Tern
**Adults:** 20

**Species:** Double-crested Cormorant
**Nests (Ground Survey):** 43
**Nests (Aerial Survey):** active colony
**Adults:** 100

**Species:** Ring-billed Gull
**Nests (Ground Survey):** 1200
**Adults:** 2000

**Species:** Western Grebe
**Adults:** 1

**Historical Data:**

California Gull

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Lower Therien Lake | 23-57-10-W4 | 100-500 nests | 1967 | Vermeer (1970a); Ealey (1986) |
| | | 176 nests | 1973 | Ealey (1986) |
| | | 110 nests | 1974 | Ealey (1986) |
| | | 55 nests | 1975 | Ealey (1986) |
| | | 7 nests | 1976 | Ealey (1986) |
| | | 4 nests | 1978 | Ealey (1986) |
| | | 5 nests | 1987 | Ealey (1986) |
| | | 2000-3000 nests | 1990 | Ealey (1986) |
| | | 2000 nests | 1992 | Ealey (1986) |

Double-crested Cormorant

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Lower Therien Lake 1 | 23-57-10-W4 | 9 nests | 1977 | Ealey (1986) |
| | | active | 1982 | Ealey (1986) |

Ring-billed Gull

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| Lower Therien Lake | 23-57-10-W4 | 500-1000 nests | 1967 | Vermeer (1970a); Ealey (1986) |
| | | 8 nests | 1987 | Ealey (1986) |
| | | 100-200 nests | 1990 | Ealey (1986) |
| | | 2000 nests | 1992 | Ealey (1986) |

**Location:** Lower Therien Lake 2
**Map:** 73E/14
**Legal:** NW2-57-10-W4
**Section** NW2 **TP** 57 **RGE** 10 **MER** W4
**UTME:** 474169
**UTMN:** 5972752

**Description:** low water; bare dirt center and grass-forb island; nests deserted as is island at extreme south end
**Notes:** 1998 Ground Survey; Map 73E/14; X204; 7 mi SW of St. Paul

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/07
**Ground Check:** Yes

**Species:** Double-crested Cormorant
**Nests (Ground Survey):** 15
**Nests (Aerial Survey):** 15 nests
**Adults:** 0

**Historical Data:**

American White Pelican

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Lower Therien Lake 2 | 2-57-10-W4 | 2 nests | 1967 | Vermeer (1970a) |
| | | 3 nests | 1987 | St. Paul NRS (1998) |
| | | active | 1988 | Federation of Alberta Naturalists (1998) |
| | | 0 nests | 1990, 1992 | St. Paul NRS (1998) |
| | | surveyed (no data) | 1994 | St. Paul NRS (1998) |

Double-crested Cormorant

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Lower Therien Lake 2 | 2-57-10-W4 | 20 nests | 1964 | St. Paul NRS (1998) |
| | | 29 nests | 1967 | Vermeer (1969a) |
| | | 57 nests | 1972 | St. Paul NRS (1998) |
| | | 69 nests | 1973 | St. Paul NRS (1998) |
| | | 75 nests | 1974 | St. Paul NRS (1998) |
| | | 71 nests | 1975 | St. Paul NRS (1998) |
| | | 66 nests | 1976 | St. Paul NRS (1998) |
| | | 70 nests | 1977 | St. Paul NRS (1998) |
| | | 56 nests | 1978 | St. Paul NRS (1998) |
| | | 50 nests | 1979-1980 | St. Paul NRS (1998) |
| | | 65 nests | 1981 | St. Paul NRS (1998) |
| | | 113 nests | 1982 | St. Paul NRS (1998) |
| | | 112 nests | 1983 | St. Paul NRS (1998) |
| | | 92 nests | 1984 | St. Paul NRS (1998) |
| | | 140 nests | 1985 | St. Paul NRS (1998) |
| | | 160 nests | 1987 | St. Paul NRS (1998) |
| | | 166 nests | 1990 | St. Paul NRS (1998) |
| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
| Lower Therien Lake 2 | | 160 nests | 1991 | St. Paul NRS (1998) |

| | | | | |
|---|---|---|---|---|
| continued | | 208 nests | 1992 | St. Paul NRS (1998) |
| | | surveyed (no data) | 1997 | St. Paul NRS (1998) |

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**Location:** Majeau Lake
**Map:** 83G/16
**Legal:** SW17-57-3-W5
**Section** SW17 **TP** 57 **RGE** 3 **MER** W5
**UTME:** 669730
**UTMN:** 5977760

**Description:** normal water level; balsam poplar island with willow and some birch, cattail at edge; late nestling stage
**Notes:** 1998 Ground Survey; Map 83G/16; north island in east lake; XH77; 4 mi W of Lac La Nonne

**Observers (Ground Survey):** Cliff Wallis
**Ground Survey Date:** 1998/07/02
**Ground Check:** Yes

**Species:** Double-crested Cormorant
**Nests (Ground Survey):** 49
**Nests (Aerial Survey):** 20 nests
**Adults:** 26

**Species:** Great Blue Heron
**Nests (Ground Survey):** 30
**Nests (Aerial Survey):** 30 nests
**Adults:** 22

**Historical Data:**

Double-crested Cormorant

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Majeau Lake | SW17-57-3-W5 | 0 nests | 1989 | St. Paul NRS (1988); N island in E lake |
| | | 1 nest | 1991 | St. Paul NRS (1988) |
| | | 0 nests | 1993 | St. Paul NRS (1988) |
| | | surveyed (no data) | 1994 | St. Paul NRS (1988) |
| | | 12 nests | 1995 | St. Paul NRS (1988) |
| | | active | 1997 | Wollis (1999) |

Great Blue Heron

- trees at a former colony were lost to fire (Soper 1939)

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Majeau Lake | SW17-57-3-W5 | occupied | 1965 | St. Paul NRS (1988); Brechtel (1981); N island in E lake |
| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
| Majeau Lake | | 20 nests | 1969 | Brechtel (1981); St. Paul NRS (1988) |
| continued | | 44 nests | 1976 | Brechtel (1981); St. Paul NRS (1988) |
| | | 30 nests | 1977 | Brechtel (1981); St. Paul NRS (1988) |

| | | | | |
|---|---|---|---|---|
| | | 54 nests | 1978 | Brechtel (1981); St. Paul NRS (1988) |
| | | 60 nests | 1979 | Brechtel (1981); St. Paul NRS (1988) |
| | | 45 nests | 1980 | Brechtel (1981); St. Paul NRS (1988) |
| | | 47 nests | 1983 | St. Paul NRS (1988) |
| | | 50 nests | 1988 | St. Paul NRS (1988) |
| | | 25 nests | 1989 | St. Paul NRS (1988) |
| | | 44 nests | 1991 | St. Paul NRS (1988) |
| | | 38 nests | 1993 | St. Paul NRS (1988) |
| | | 23 nests | 1995 | St. Paul NRS (1988) |
| | | active | 1997 | Wollis (1999) |

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**Location:** Medicine Hat
**Map:** 72L/2
**Legal:** E5-13-5-W4
**Section** E5 **TP** 13 **RGE** 5 **MER** W4
**UTME:** 524950
**UTMN:** 5544525

**Description:** open cottonwood forest; new location for Medicine Hat; reported by D. Baresco; late nestling stage
**Notes:** Not Surveyed in 1998 Aerial Survey; Map 72L2; N of Police Point, w side of S. Saskatchewan River

**Observers (Ground Survey):** Wayne Smith, D. Baresco
**Ground Survey Date:** 1998/07/03
**Ground Check:** Yes

**Species:** Great Blue Heron
**Nests (Ground Survey):** 24
**Adults:** 6

**Historical Data:**

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Medicine Hat | E5-13-5-W4 | 3 | 1992 | Sherrington (1993b) |
| | | 19 | 1993 | Sherrington (1993b) |
| | | 8 adults, 4 nests | 1995 | Sherrington (1995b) |
| | | 32 | 1996 | Sherrington (1997c) |
| | | 28 | 1997 | Sherrington (1997c) |

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**Location:** Meinsinger Lake
**Map:** 82J/8
**Legal:** NW17-15-2-W5
**Section** NW17 **TP** 15 **RGE** 2 **MER** W5
**UTME:** 696150
**UTMN:** 5571350

**Description:** aspen woods at S shore of lake; late nestling stage
**Notes:** 1998 Aerial Survey; Map 82J/8; XH81; by Chain L PP; photos 1/2

**Observers (Ground Survey):** Cliff Wallis
**Ground Survey Date:** 1998/06/17
**Ground Check:** Yes

**Species:** Great Blue Heron
**Nests (Ground Survey):** 28
**Nests (Aerial Survey):** 20+ nests
**Adults:** 12

**Historical Data:**

Great Blue Heron

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Meinsinger Lake | 17-15-2-W4 | 66 nests | 1985 | Ealey (1986) |

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**Location:** Milk River Ridge Reservoir 1
**Map:** 82H/7
**Legal:** S8-5-19-W4
**Section** S8 **TP** 5 **RGE** 19 **MER** W4
**UTME:** 389494
**UTMN:** 5468829

**Description:** high water; half bare dirt, half forb-weed, island; late fledgling stage; extrapolated from 100 X 5 m transect
**Notes:** 1998 Ground Survey; large island at east end

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/22
**Ground Check:** Yes

**Species:** California Gull
**Nests (Ground Survey):** 5287
**Nests (Aerial Survey):** part of 1000+ nests
**Adults:** 5000

**Species:** Double-crested Cormorant
**Nests (Ground Survey):** 0; no nests found despite apparent nesting on aerial survey
**Nests (Aerial Survey):** 80+ nests
**Adults:** 0

**Species:** Ring-billed Gull
**Nests (Ground Survey):** 7734
**Nests (Aerial Survey):** part of 1000+ nests
**Adults:** 6000

**Historical Data:**

California Gull

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Milk River Ridge Reservoir 1 | S8-5-19-W4 | part of 2000 - 3000 nests | 1978 | Brechtel, NRS Edmonton (1998); large island in E center |
| | | colony | 1979 | Brechtel, NRS Edmonton (1998) |

Double-crested Cormorant

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Milk River Ridge Reservoir 1 | S8-5-19-W4 | 38 nests | 1981 | Lethbridge NRS (1998) via J. Clark |
| | | 10 nests | 1989 | Lethbridge NRS (1998) |
| | | active | 1990 | Brechtel, NRS Edmonton (1998) |

Ring-billed Gull

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Milk River Ridge Reservoir 1 | S8-5-19-W4 | part of 2000 - 3000 nests | 1978 | Brechtel, NRS Edmonton (1998); large island in E center |
| | | colony | 1979 | Brechtel, NRS Edmonton (1998) |

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**Location:** Milk River Ridge Reservoir 2
**Map:** 82H/7
**Legal:** SW14-5-20-W4
**Section** SW14 **TP** 5 **RGE** 20 **MER** W4
**UTME:** 383683
**UTMN:** 5470975

**Description:** high water; grass with big willow patches, island; late fledgling stage
**Notes:** 1998 Ground Survey; small island west of N spillway; 5 mi SE of Raymond; X210

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/22
**Ground Check:** Yes

**Species:** American White Pelican
**Adults:** 30

**Species:** California Gull
**Nests (Ground Survey):** 133
**Nests (Aerial Survey):** part of 100+ nests
**Adults:** 100

**Species:** Double-crested Cormorant
**Adults:** 1

**Species:** Franklin's Gull
**Adults:** 10

**Historical Data:**

California Gull

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Milk River Ridge Reservoir 2 | SW14-5-20-W4 | part of 200-400 nests | 1978 | Brechtel, NRS Edmonton (1998); small island west of N spillway |
| | | colony | 1979 | Brechtel, NRS Edmonton (1998) |
| | | 80 nests | 1988 | PNRS (1988) |

Ring-billed Gull

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Milk River Ridge Reservoir 2 | SW14-5-20-W4 | part of 200-400 nests | 1978 | Brechtel, NRS Edmonton (1998); small island west of N spillway |
| | | colony | 1979 | Brechtel, NRS Edmonton (1998) |

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**Location:** Miquelon Lake 1
**Map:** 83H/7
**Legal:** NE30-49-20-W4
**Section** NE30 **TP** 49 **RGE** 20 **MER** W4
**UTME:** 372865
**UTMN:** 5902685

**Description:** low water; rocky, partly forb covered island; half egg, half nestling stage
**Notes:** 1998 Ground Survey; X211; E of 2 islands, very small, near centre of NE bay

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/09
**Ground Check:** Yes

**Species:** California Gull
**Nests (Ground Survey):** 246
**Nests (Aerial Survey):** active small
**Adults:** 200

**Historical Data:**

California Gull

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Miquelon Lake | NE30-49-20-W4 | 470 nests | 1964 | Vermeer (1970a); Island A |
| | | 87 nests | 1965 | Vermeer (1970a) |

Ring-billed Gull

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Miquelon Lake | | 315 nests | 1964 | Vermeer (1970a); Island A |
| | | 58 nests | 1965 | Vermeer (1970a) |

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**Location:** Miquelon Lake 2
**Map:** 83H/7
**Legal:** SW30-49-20-W4
**Section** SW30 **TP** 49 **RGE** 20 **MER** W4
**UTME:** 371786
**UTMN:** 5902032

**Description:** low water; rocky, sand gravel beach, low shrub island, 15 small aspen; early fledgling stage; extrapolated from 100 X 5 m transect count
**Notes:** 1998 Ground Survey; X211; W of 2 islands

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/09

**Ground Check:** Yes

**Species:** California Gull
**Nests (Ground Survey):** 1750
**Nests (Aerial Survey):** part of several 1000 nests
**Adults:** 2000

**Species:** Ring-billed Gull
**Nests (Ground Survey):** 9925
**Nests (Aerial Survey):** part of several 1000 nests
**Adults:** 10000

**Historical Data:**

American White Pelican

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Miquelon Lake 2 | SW30-49-20-W4 | 250 nests | 1908 | Farley (1919) |

California Gull

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Miquelon Lake 2 | SW30-49-20-W4 | 300 nests | 1964 | Vermeer (1970a); Island B; estimate |
| | | 44 nests | 1965 | Vermeer (1970a) |
| | | <100 nests | 1968 | Vermeer (1970a) |
| | | 1848 nests | 1976 | Weseloh (1978) |
| | | colony | 1980 | Ealey (1986) |
| | | colony | 1985 | PNRS (1998) |

Double-crested Cormorant

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Miquelon Lake 2 | SW30-49-20-W4 | active | 1908 | Farley (1919) |

Great Blue Heron

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Miquelon Lake | SW30-49-20-W4 | active | 1908 | Farley (1919) |
| | | extinct | 1918 | Farley (1919); trees dead/fallen, nettles |

Ring-billed Gull

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Miquelon Lake 2 | SW30-49-20-W4 | 7 nests | 1954 | PNRS (1998) |
| Miquelon Lake 2 | | 1200 nests | 1964 | Vermeer (1970a); Island B; estimate |
| | | 378 nests | 1965 | Vermeer (1970a) |
| | | 500-1000 nests | 1968 | Vermeer (1970a); BSOD (1998) |
| | | 10,087 nests | 1976 | Weseloh (1978) |
| | | colony | 1980 | Ealey (1986) |

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**Location:** Moore Lake
**Map:** 73L/10

**Legal:** 10-64-4-W4
**Section** 10 **TP** 64 **RGE** 4 **MER** W4
**UTME:** 531500
**UTMN:** 6040750

**Description:** mixed woods at southern tip of island
**Notes:** 1998 Aerial Survey; Map 73L/10; Doris Island; 15 mi NW of Cold Lake (town); XH83

**Observers:** Wayne Smith, Cliff Wallis
**Aerial Survey Date:** May 29-31 1998
**Ground Check:** No

**Species:** Great Blue Heron
**Nests (Aerial Survey):** 10 nests

**Historical Data:**

Great Blue Heron

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Crane (Moore) Lake | | 29 nests | 1976 | St. Paul NRS (1998); unclear if it is this Moore Lake |
| | | extinct | post 1976 | St. Paul NRS (1998) |
| Moore Lake | 10-64-4-W4 | active | 1972 | PNRS (1998) |
| | | 20 nests | 1990 | St. Paul NRS (1998); Doris Island |
| | | 30 nests | 1992 | St. Paul NRS (1998) |
| | | surveyed (no data) | 1994 | St. Paul NRS (1998) |

**Location:** Muriel Lake
**Map:** 73/L2
**Legal:** 11-60-5-W4
**Section** 11 **TP** 60 **RGE** 5 **MER** W4
**UTME:** 523673
**UTMN:** 6002552

**Description:** normal water; bare rocky shores of points; rest is low shrub/willow-weedy-grassy; egg/nestling stage
**Notes:** 1998 Ground Survey; Map 73L/2; X213; 6 mi SE of Bonnyville

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/06
**Ground Check:** Yes

**Species:** American White Pelican
**Adults:** 2

**Species:** Black Tern
**Adults:** 1

**Species:** California Gull
**Nests (Ground Survey):** 1200
**Nests (Aerial Survey):** part of 2000 nests
**Adults:** 3000

**Species:** Common Tern
**Adults:** 300 (50 Common Tern observed flying; also 250 in colony on island to SE (marked on 1:50,000 map)

**Species:** Double-crested Cormorant

**Nests (Ground Survey):** 1895
**Nests (Aerial Survey):** 400 nests
**Adults:** 1500

**Species:** Franklin's Gull
**Adults:** 400

**Species:** Herring Gull
**Nests (Ground Survey):** 20
**Nests (Aerial Survey):** part of 2000 nests
**Adults:** 15

**Species:** Ring-billed Gull
**Nests (Ground Survey):** 2500
**Nests (Aerial Survey):** part of 2000 nests
**Adults:** 3000

**Historical Data:**

California Gull

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Muriel Lake | 11-60-5-W4 | 300-400 nests | 1990 | St. Paul NRS (1998) |
| | | 200-300 nests | 1991 | St. Paul NRS (1998) |
| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
| Muriel Lake | | 300 nests | 1992 | St. Paul NRS (1998) |
| continued | | 300 nests | 1993 | St. Paul NRS (1998) |
| | | surveyed (no data) | 1996 | St. Paul NRS (1998) |

Double-crested Cormorant

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Muriel Lake | 11-60-5-W4 | 200 nests | 1990 | St. Paul NRS (1998) |
| | | 110 nests | 1991 | St. Paul NRS (1998) |
| | | 1200 nests | 1992 | St. Paul NRS (1998) |
| | | 800 nests | 1993 | St. Paul NRS (1998) |
| | | surveyed (no data) | 1996 | St. Paul NRS (1998) |

Ring-billed Gull

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Muriel Lake | 11-60-5-W4 | 3000 nests | 1990 | St. Paul NRS (1998) |
| | | 25 nests | 1991 | St. Paul NRS (1998) |
| | | 300 nests | 1992 | St. Paul NRS (1998) |
| | | 1000 nests | 1993 | St. Paul NRS (1998) |
| | | surveyed (no data) | 1996 | St. Paul NRS (1998) |

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**Location:** Murray Lake 1
**Map:** 72E/15
**Legal:** SE1-10-8-W4
**Section** SE1 **TP** 10 **RGE** 8 **MER** W4
**UTME:** 503250

**UTMN:** 5515156

**Description:** high water; forb-low willow, some taller willow, island; late fledgling stage
**Notes:** 1998 Ground Survey; Map 72 L; X214; moved to X215

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/21
**Ground Check:** Yes

**Species:** California Gull
**Nests (Ground Survey):** 72
**Nests (Aerial Survey):** part of <100 nests
**Adults:** 250

**Species:** Double-crested Cormorant
**Nests (Ground Survey):** 0; no nests found despite apparent nesting on aerial survey
**Nests (Aerial Survey):** 3 nests
**Adults:** 25

**Species:** Great Blue Heron
**Nests (Ground Survey):** 6
**Adults:** 3

**Species:** Ring-billed Gull
**Nests (Ground Survey):** 72
**Nests (Aerial Survey):** part of <100 nests
**Adults:** 250

**Species:** Western Grebe
**Adults:** 5

**Historical Data:**

- see Murray Lake 2

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**Location:** Murray Lake 2
**Map:** 72E/15
**Legal:** SW12-10-8-W4
**Section** SW12 **TP** 10 **RGE** 8 **MER** W4
**UTME:** 502349
**UTMN:** 5516211

**Description:** high water; bare dirt-forbs, 2 mid-size willow, island; 3 tree, 2 ground nests in middle of cormorant nests; nestling stage
**Notes:** 1998 Ground Survey; Map 72 L; X215; X214 colony has moved to this one

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/21
**Ground Check:** Yes

**Species:** American White Pelican
**Adults:** 20

**Species:** California Gull
**Nests (Ground Survey):** 420

**Nests (Aerial Survey):** active large
**Adults:** 750

**Species:** Caspian Tern
**Nests (Ground Survey):** 1
**Adults:** 2

**Species:** Double-crested Cormorant
**Nests (Ground Survey):** 272
**Nests (Aerial Survey):** 50 nests
**Adults:** 80

**Species:** Great Blue Heron
**Nests (Ground Survey):** 5
**Adults:** 1

**Species:** Ring-billed Gull
**Nests (Ground Survey):** 1120
**Nests (Aerial Survey):** active large
**Adults:** 2000

**Historical Data: (Murray Lake 1 and 2)**

California Gull

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Murray Lake | | 100-500 nests | 1968 | Vermeer (1970a); Brechtel, NRS Edmonton (1998); nests on 3 islands |
| | | 151 nests | 1976 | Brechtel, NRS Edmonton (1998); Weseloh (1978) |
| | | 3 colonies | 1978 | BSOD (1998) |
| | | 3 colonies | 1979 | BSOD (1998) |
| | | colony | 1985 | Ealey (1986) |

Double-crested Cormorant (Murray Lake 1)

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Murray Lake | SW12-10-8-W4 | 27 nests | 1977 | Brechtel (1981); moved from previous location |
| | | 4 nests | 1978 | Brechtel (1981) |
| | | 83 nests | 1979 | Brechtel (1981) |
| | | 28 nests | 1980 | Brechtel (1981) |
| | | 45 nests | 1983 | BSOD (1998) |
| | | 65 nests | 1989 | Lethbridge NRS (1998) |
| | | active | 1990 | Brechtel (1981) |

Double-crested Cormorant (Murray Lake 2)

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Murray Lake | SE1-10-8-W4 | 0 nests | 1967 | Brechtel (1981); note different location |
| | | 77 nests | 1976 | Brechtel (1981) |

Great Blue Heron

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Murray Lake | 26-9-8-W4 | 30 nests | 1967 | Brechtel (1981) |
| | | 50 nests | 1980 | Brechtel (1981) |
| | | active | 1982 | BSOD (1998) |

Ring-billed Gull

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Murray Lake | | 1000-3000 nests | 1968 | Brechtel, NRS Edmonton (1998); 3 islands |
| | | 747 nests | 1976 | Brechtel, NRS Edmonton (1998); Weseloh (1978) |
| | | 3 colonies | 1978 | BSOD (1998) |
| | | 3 colonies | 1979 | BSOD (1998) |
| | | colony | 1985 | Ealey (1986) |

**Location:** Muskeg Creek
**Map:** 83B/16
**Legal:** SW11-45-1-W5
**Section** SW11 **TP** 45 **RGE** 1 **MER** W5
**UTME:** 698950
**UTMN:** 5861000

**Description:** conifers along Muskeg Creek
**Notes:** 1998 Aerial Survey; BSOD (1998) 383 and 5681998 Aerial Survey; 2 miles NW of Springdale

**Observers:** Wayne Smith, Cliff Wallis
**Aerial Survey Date:** May 29-31 1998
**Ground Check:** No

**Species:** Great Blue Heron
**Nests (Aerial Survey):** 15 nests

**Historical Data:**

Great Blue Heron

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Muskeg Creek | SW11-45-1-W5 | 7 adults | 1973 | BSOD (1998) |
| | | 15 nests | 1985 | BSOD (1998) |
| | | 17 nests | 1987 | Ealey (1986) |

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**Location:** Namur Lake
**Map:** 84H/7
**Legal:** 36-97-17-W4
**Section** 36 **TP** 97 **RGE** 17 **MER** W4

**Description:** on island on the north end of the lake
**Notes:** not surveyed in 1998 Aerial Survey; Fish and Wildlife 1998 Ground Survey; X218

**Observers (Ground Survey):** John Martin
**Ground Survey Date:** 1998/06/09
**Ground Check:** Alberta Fish and Wildlife

**Species:** American White Pelican
**Nests (Ground Survey):** 279

**Species:** California Gull
**Adults:** approx. 250

**Species:** Double-crested Cormorant
**Nests (Ground Survey):** 312

**Historical Data:**

American White Pelican

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Namur Lake | 36-97-17-W4 | 153 nests | 1967 | Vermeer (1969a) |
| | | 198 nests | 1974 | St. Paul NRS (1998) |

| | | | | |
|---|---|---|---|---|
| | | 0 nests | 1975,1977 | St. Paul NRS (1998); Bishoff & Fyfe (1976); disturbed earlier |
| | | 75 nests | 1978 | St. Paul NRS (1998) |
| | | 34 nests | 1979 | St. Paul NRS (1998) |
| | | 25 nests | 1985 | St. Paul NRS (1998) |
| | | 161 nests | 1989 | St. Paul NRS (1998) |
| | | 135 nests | 1990 | St. Paul NRS (1998) |
| | | 50 nests | 1991 | St. Paul NRS (1998) |
| | | surveyed (no data) | 1997 | St. Paul NRS (1998) |

California Gull

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Namur Lake | 36-97-17-W4 | 139-200 nests | 1977 | St. Paul NRS (1998) |
| | | 600-700 pairs | 1985 | St. Paul NRS (1998) |
| | | surveyed (no data) | 1997 | St. Paul NRS (1998) |

Caspian Tern

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Namur Lake | 36-97-17-W4 | >40 eggs | 1990 | Westworth & Associates (1990) |

Double-crested Cormorant

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Namur Lake | 36-97-17-W4 | surveyed (no data) | 1997 | St. Paul NRS (1998) |

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**Location:** Noral Lake
**Map:** 83I/9
**Legal:** 17-65-16-W4
**Section** 17 **TP** 65 **RGE** 16 **MER** W4
**UTME:** 410414
**UTMN:** 6054313

**Description:** normal water level; mixed spruce poplar with dead spars; egg/young nestling stage; count lower than actual (hard to see in spruce)
**Notes:** 1998 Ground Survey (from shore); Map 83I/9; XH88; 2 mi S of Noral

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/04
**Ground Check:** Yes

**Species:** Black Tern
**Adults:** 10

**Species:** Double-crested Cormorant
**Nests (Ground Survey):** 100
**Nests (Aerial Survey):** part of 70 nests
**Adults:** 60

**Species:** Great Blue Heron
**Nests (Ground Survey):** 30
**Nests (Aerial Survey):** part of 70 nests

**Adults:** 20

**Historical Data:**

Great Blue Heron

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Noral Lake | 17-65-16-W4 | 12 nests | 1978 | St. Paul NRS (1998); Brechtel (1981) |
| | | 39 nests | 1985 | St. Paul NRS (1998) |
| | | 38 nests | 1988 | St. Paul NRS (1998) |
| | | 31 nests | 1991 | St. Paul NRS (1998) |
| | | 30 nests | 1993 | St. Paul NRS (1998) |

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**Location:** North Bellis Lake
**Map:** 83I/1
**Legal:** 30-60-15-W4
**Section** 30 **TP** 60 **RGE** 15 **MER** W4
**UTME:** 421650
**UTMN:** 6008350

**Description:** small wooded island in west part of lake
**Notes:** 1998 Aerial Survey; 5 mi NW of Bellis; XH89

**Observers:** Wayne Smith, Cliff Wallis
**Aerial Survey Date:** May 29-31 1998
**Ground Check:** No

**Species:** Great Blue Heron
**Nests (Aerial Survey):** <15 nests

**Historical Data:**

Great Blue Heron

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| North Bellis Lake | 29-60-15-W4 | 37 nests | 1988 | St. Paul NRS (1998); island at west end |
| | | 14 nests | 1990 | St. Paul NRS (1998) |
| | | 18 nests | 1992 | St. Paul NRS (1998) |
| | | surveyed (no data) | 1994 | St. Paul NRS (1998) |

**Location:** North Buck Lake
**Map:** 83I/10
**Legal:** 12-66-18-W4
**Section** 12 **TP** 66 **RGE** 18 **MER** W4
**UTME:** 397053
**UTMN:** 6062589

**Description:** normal water level; mixed spruce aspen; young nestling stage; count may be lower by 10-15% than actual (hard to see in spruce); colony back from shore
**Notes:** 1998 Ground Survey; Map 83I/10; XH90; 9 mi SE of Donatville

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/04
**Ground Check:** Yes

**Species:** Black Tern
**Adults:** 8

**Species:** Forster's Tern
**Adults:** 4

**Species:** Franklin's Gull
**Adults:** 30

**Species:** Great Blue Heron
**Nests (Ground Survey):** 95
**Nests (Aerial Survey):** 60 nests
**Adults:** 40

**Historical Data:**

Great Blue Heron

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| North Buck Lake | 12-66-18-W4 | 5 nests | 1972 | St. Paul NRS (1998); Brechtel (1981) |
| | | 8 nests | 1978 | St. Paul NRS (1998); Brechtel (1981) |
| | | 13 nests | 1979 | St. Paul NRS (1998); Brechtel (1981) |
| | | 13 nests | 1981 | St. Paul NRS (1998); Brechtel (1981) |
| | | 27 nests | 1985 | St. Paul NRS (1998) |
| | | 34 nests | 1988 | St. Paul NRS (1998) |
| | | 35 nests | 1989 | St. Paul NRS (1998) |
| | | 72 nests | 1992 | St. Paul NRS (1998) |

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**Location:** North Lucky Lake
**Map:** 83I/7
**Legal:** NE21-62-18-W4
**Section** NE21 **TP** 62 **RGE** 18 **MER** W4
**UTME:** 394525
**UTMN:** 6026650

**Description:** normal water level; white spruce, some paper birch island; most nests in dead spruce spars; late nestling; surveyed from west shore
**Notes:** 1998 Ground Survey; Map 83I/7; X220=XH93; 5 mi SE of Long L PP; access on Thorhild Grazing

Reserve

**Observers (Ground Survey):** Cliff Wallis
**Ground Survey Date:** 1998/07/03
**Ground Check:** Yes

**Species:** American White Pelican
**Adults:** 8

**Species:** Black Tern
**Adults:** 3

**Species:** Double-crested Cormorant
**Nests (Ground Survey):** 35
**Nests (Aerial Survey):** 20 nests
**Adults:** 18

**Species:** Franklin's Gull
**Adults:** 4

**Species:** Great Blue Heron
**Nests (Ground Survey):** 3
**Nests (Aerial Survey):** not found
**Adults:** 2

**Historical Data:**

Double-crested Cormorant

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| North Lucky Lake | 21-62-18-W4 | 51 nests | 1992 | St. Paul NRS (1998) |
| | | surveyed (no data) | 1994 | St. Paul NRS (1998) |

Great Blue Heron

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| North Lucky Lake | 21-62-18-W4 | 25 nests | 1978 | St. Paul NRS (1998) |
| | | 24 nests | 1985 | St. Paul NRS (1998) |
| | | 25 nests | 1988 | St. Paul NRS (1998) |
| | | 18 nests | 1992 | St. Paul NRS (1998) |
| | | surveyed (no data) | 1994 | St. Paul NRS (1998) |

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**Location:** Orloff Lake
**Map:** 83P/5
**Legal:** NE31-73-23-W4
**Section** NE31 **TP** 73 **RGE** 23 **MER** W4
**UTME:** 340200
**UTMN:** 6138900

**Description:** small wooded island at west end of lake
**Notes:** 1998 Aerial Survey; Fish and Wildlife 1998 Ground Survey; XH97; 14 mi NW of Calling L PP; this lake is erroneously labelled Rock Island Lake on some 1:50,000 maps

**Observers (Ground Survey):** M. Heckbert

**Ground Survey Date:** 1998/07/07
**Ground Check:** Alberta Fish and Wildlife

**Species:** Great Blue Heron
**Nests (Ground Survey):** 20
**Nests (Aerial Survey):** 25

**Historical Data:**

Double-crested Cormorant

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Orloff Lake | 16-74-23-W4 | 0 nests | 1979 | Brechtel (1981) |
| | | 15 nests | 1980 | Brechtel (1981) |

Great Blue Heron

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Orloff Lake | SW6-74-23-W4 | 50 nests | 1978 | Brechtel (1981) |
| | | 40 nests | 1979 | Brechtel (1981) |
| | | 50 nests | 1980 | Brechtel (1981) |
| | | 25 nests | 1990 | BSOD (1998) |

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**Location:** Pakowki Lake 1
**Map:** 72E/6
**Legal:** NE4-5-8-W4
**Section** NE4 **TP** 5 **RGE** 8 **MER** W4
**UTME:** 498193
**UTMN:** 5467321

**Description:** low water; rocky-grass, some forbs, island; may be dry and accessed from mainland in 2-3 days
**Notes:** 1998 Ground Survey; small island in west channel

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/20
**Ground Check:** Yes

**Species:** California Gull
**Nests (Ground Survey):** 5
**Nests (Aerial Survey):** active
**Adults:** 50

**Species:** Common Tern
**Nests (Ground Survey):** 25
**Nests (Aerial Survey):** active
**Adults:** 25

**Species:** Ring-billed Gull
**Nests (Ground Survey):** 70
**Nests (Aerial Survey):** active
**Adults:** 250

**Historical Data:**

California Gull

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Pakowki Lake | 3-5-8-W4 (approx.) | part of 40-80 nests | 1975 | Ealey (1986); small island W arm |
| | | part of 100 adults | 1978 | Brechtel, NRS Edmonton (1998); small island W arm |
| | | small colony | 1979 | Brechtel, NRS Edmonton (1998); small island W arm |
| | | colony | 1985 | Ealey (1986); small island W arm |

Caspian Tern

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Pakowki Lake | 3-5-8-W4 (approx.) | 1 adult | 1980 | June 22 (C. Wallis pers. comm.) |
| | | 1 adult | 1996 | Sherrington (1996c); August 1 |

Double-crested Cormorant

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Pakowki Lake | 3-5-8-W4 (approx.) | 0 nests | 1978-1979 | (Brechtel (1981); mall island W arm |
| | | 36 nests | 1980 | (Brechtel (1981) |
| | | 100 birds | 1992 | Ealey (1986) |

Ring-billed Gull

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Pakowki Lake | 3-5-8-W4 (approx.) | part of 40-80 nests | 1975 | Ealey (1986); small island W arm |
| | | part of 100 adults | 1978 | Brechtel, NRS Edmonton (1998); small island W arm |
| | | small colony | 1979 | Brechtel, NRS Edmonton (1998);small island W arm |
| | | colony | 1985 | Ealey (1986); small island W arm |

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**Location:** Pakowki Lake 2
**Map:** 72E/7
**Legal:** NW35-4-8-W4
**Section** NW35 **TP** 4 **RGE** 8 **MER** W4
**UTME:** 500290
**UTMN:** 5466368

**Description:** low water; rock-grass island; abandoned
**Notes:** 1998 Ground Survey; 1 of 8 small islands at mouth of W arm by X222

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/20
**Ground Check:** Yes

**Species:** California Gull
**Nests (Ground Survey):** 263
**Nests (Aerial Survey):** active (1 large)
**Adults:** 300

**Species:** Common Tern
**Nests (Ground Survey):** 20
**Adults:** 20

**Species:** Double-crested Cormorant
**Nests (Ground Survey):** 44
**Adults:** 0

**Species:** Ring-billed Gull
**Nests (Ground Survey):** 176
**Nests (Aerial Survey):** active (1 large)
**Adults:** 200

**Historical Data:**

- new survey location

---

**Location:** Pakowki Lake 3
**Map:** 72E/7
**Legal:** SE3-5-8-W4
**Section** SE3 **TP** 5 **RGE** 8 **MER** W4
**UTME:** 500379
**UTMN:** 5466285

**Description:** low water; rock-grass island; egg stage
**Notes:** 1998 Ground Survey; 1 of 8 small islands at mouth of W arm by X222

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/20
**Ground Check:** Yes

**Species:** California Gull
**Nests (Ground Survey):** 49
**Nests (Aerial Survey):** active
**Adults:** 60

**Species:** Common Tern
**Nests (Ground Survey):** 10
**Nests (Aerial Survey):** active
**Adults:** 10

**Species:** Ring-billed Gull
**Nests (Ground Survey):** 32
**Nests (Aerial Survey):** active
**Adults:** 40

**Historical Data:**

- new survey location

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**Location:** Pakowki Lake 4
**Map:** 72E/7

**Legal:** SE3-5-8-W4
**Section** SE3 **TP** 5 **RGE** 8 **MER** W4
**UTME:** 500489
**UTMN:** 5466208

**Description:** low water; rock-grass island; egg stage
**Notes:** 1998 Ground Survey; 1 of 8 small islands at mouth of W arm by X222

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/20
**Ground Check:** Yes

**Species:** California Gull
**Nests (Ground Survey):** 22
**Nests (Aerial Survey):** active
**Adults:** 20

**Species:** Ring-billed Gull
**Nests (Ground Survey):** 199
**Nests (Aerial Survey):** active
**Adults:** 180

**Historical Data:**

- new survey location

---

**Location:** Pakowki Lake 5
**Map:** 72E/7
**Legal:** SE3-5-8-W4
**Section** SE3 **TP** 5 **RGE** 8 **MER** W4
**UTME:** 500683
**UTMN:** 5465968

**Description:** low water; rock-grass-forb island; 1 egg, 1 nestling stage
**Notes:** 1998 Ground Survey; south rock island; X222

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/20
**Ground Check:** Yes

**Species:** American White Pelican
**Nests (Ground Survey):** 2
**Nests (Aerial Survey):** 1 nest?
**Adults:** 15

**Species:** California Gull
**Nests (Ground Survey):** 391
**Nests (Aerial Survey):** active large
**Adults:** 450

**Species:** Double-crested Cormorant
**Nests (Ground Survey):** 92
**Nests (Aerial Survey):** 50 nests
**Adults:** 35

**Species:** Ring-billed Gull
**Nests (Ground Survey):** 43
**Nests (Aerial Survey):** active large
**Adults:** 50

**Historical Data:**

American White Pelican

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Pakowki Lake | 3-5-8-W4 (approx.) | 0 nests | 1978-1979 | Brechtel (1981); small island W arm |
| | | 8 nests | 1980 | Brechtel (1981) |
| | | 28 nests | 1981 | Lethbridge NRS (1998) |

---

**Location:** Pakowki Lake 6
**Map:** 72E/7
**Legal:** SE13-5-8-W4
**Section** SE13 **TP** 5 **RGE** 8 **MER** W4
**UTME:** 503887
**UTMN:** 5469776

**Description:** low water; rock-grass-forb island; egg stage
**Notes:** 1998 Ground Survey; long narrow island off N end of 2nd largest island

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/20
**Ground Check:** Yes

**Species:** Common Tern
**Nests (Ground Survey):** 130
**Adults:** 130

**Historical Data:**

- new survey location

**Location:** Pakowki Lake 7
**Map:** 72E/7
**Legal:** NW7-5-7-W4
**Section** NW7 **TP** 5 **RGE** 7 **MER** W4
**UTME:** 504398
**UTMN:** 5468804

**Description:** low water; open poplar woods with mod. dense rose shrubbery, island; abandoned but were active in 1998
**Notes:** 1998 Ground Survey; in trees on north island

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/20
**Ground Check:** Yes

**Species:** American White Pelican
**Nests (Ground Survey):** 47
**Nests (Aerial Survey):** 20+ nests

**Adults:** 30

**Species:** Great Blue Heron
**Nests (Ground Survey):** 10
**Adults:** 0

**Historical Data:**

- new survey location

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**Location:** Parlby Creek
**Map:** 83A/6
**Legal:** 31-40-23-W4
**Section** 31 **TP** 40 **RGE** 23 **MER** W4
**UTME:** 343524
**UTMN:** 5816520

**Description:** balsam poplar woods; nestling stage
**Notes:** 1998 Ground Survey; BSOD (1998) 417-422; 1 mile NE of Tees

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/17
**Ground Check:** Yes

**Species:** Great Blue Heron
**Nests (Ground Survey):** 24
**Nests (Aerial Survey):** 27 nests
**Adults:** 6

**Historical Data:**
Great Blue Heron

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Parlby Creek (Tees) | N31-40-23-W4 | occupied | 1975 | Brechtel (1981) |
| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
| Parlby Creek (Tees) | | occupied | 1976 | Brechtel (1981) |
| continued | | occupied | 1977 | Red Deer NRS (1998) |
| | | 7 nests | 1978 | Brechtel (1981) |
| | | occupied | 1979 | Red Deer NRS (1998) |
| | | occupied | 1980 | Red Deer NRS (1998) |
| | | occupied | 1981 | Brechtel (1981) |
| | | 19 nests | 1982 | BSOD (1998) |
| | | 18 nests | 1987 | BSOD (1998) |
| | | 19 nests | 1988 | BSOD (1998) |
| | | 18 nests | 1989 | BSOD (1998) |
| | | 28 nests | 1991 | BSOD (1998) |

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**Location:** Paul Lake
**Map:** 83H/10
**Legal:** 4&5-54-20-W4
**Section** 4&5 **TP** 54 **RGE** 20 **MER** W4

**UTME:** 374200
**UTMN:** 5944400

**Description:** no description; UTMs approximate
**Notes:** 1998 EINP Survey; most of the colony may have moved to Lamont Island

**Observers (Ground Survey):** R. Kaye, EINP
**Ground Survey Date:** 1998/07/07
**Ground Check:** Elk Island National Park

**Species:** Great Blue Heron
**Nests (Ground Survey):** 2 active; 2 inactive
**Adults:** 0

**Historical Data:**

Great Blue Heron

- may have moved to Lamont Island at Astotin Lake in 1997

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Paul Lake | 4-54-20-W4 | 14 nests | 1990 | St. Paul NRS (1998) |
| | | 17 nests | 1991 | Kaye (1998); St. Paul NRS (1998) |
| | | 19 nests | 1992 | Kaye (1998); St. Paul NRS (1998) |
| | | 22 nests | 1993 | Kaye (1998); St. Paul NRS (1998) |
| | | 17 nests | 1994 | Kaye (1998) |
| | | 15 nests | 1995 | Kaye (1998) |
| | | 20 nests | 1996 | Kaye (1998) |
| | | 13 nests | 1997 | Kaye (1998) |

**Location:** Pelican Lake - North Island
**Map:** 83P/14
**Legal:** SW9-79-21-W4
**Section** SW9 **TP** 79 **RGE** 21 **MER** W4

**Description:** larger island at north end of lake; central portion of island is devoid of vegetation with some scrubby willows on east and south side and some larger aspen trees on the west and north side of the island.
**Notes:** Not Surveyed in 1998 Aerial Survey; Fish and Wildlife 1998 Ground Survey; X224=XH102; 14 mi E of S Wabasca L; American White Pelican young were 3-4 weeks of age

**Observers (Ground Survey):** M. Heckbert
**Ground Survey Date:** 1998/07/07
**Ground Check:** Alberta Fish and Wildlife

**Species:** American White Pelican
**Nests (Ground Survey):** unknown--1328 young observed

**Species:** Double-crested Cormorant
**Nests (Ground Survey):** 565 (25 in trees)

**Historical Data:** for whole lake, total number of American White Pelican nests was 150 in 1985; Double-crested Cormorant was 100 in 1980; Great Blue Heron was 57 in 1978

Double-crested Cormorant

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Pelican Lake | SW9-79-21-W4 | 0 nests | 1967 | Brechtel (1981) |
| | | 15 nests | 1978 | Brechtel (1981) |
| | | active | 1980 | Brechtel (1981) |

Great Blue Heron

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Pelican Lake | SW9 (or 8)-79-21-W4 | 35 nests | 1967 | Brechtel (1981); Vermeer (1969b) |
| | | 57 nests | 1978 | Brechtel (1981) |
| | | occupied | 1980 | Brechtel (1981) |

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**Location:** Pelican Lake - South Island
**Map:** 83P/14
**Legal:** NW30-78-21-W4
**Section** NW30 **TP** 78 **RGE** 21 **MER** W4

**Description:** smaller island near centre of lake; no trees on the island but there is a fringe of 5-10 m of various weeds around the island where the gull nests were located
**Notes:** Not Surveyed in 1998 Aerial Survey; Fish and Wildlife 1998 Ground Survey; Map 83 P; X225; 12 mi E of S Wabasca L; American White Pelican young were 3-4 weeks of age

**Observers (Ground Survey):** M. Heckbert
**Ground Survey Date:** 1998/07/07
**Ground Check:** Alberta Fish and Wildlife

**Species:** American White Pelican
**Nests (Ground Survey):** unknown--780 young observed

**Species:** Double-crested Cormorant
**Nests (Ground Survey):** 460

**Species:** Ring-billed Gull
**Nests (Ground Survey):** 200

**Historical Data:** for whole lake, total number of American White Pelican nests was 150 in 1985; Double-crested Cormorant was 100 in 1980; Great Blue Heron was 57 in 1978

American White Pelican

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Pelican Lake | 30-78-21-W4 | active | 1977 | Brechtel (1981) |
| | | 225 nests | 1978 | Brechtel (1981) |
| | | 216 nests | 1980 | Brechtel (1981) |
| | | 150 nests | 1985 | Brechtel, NRS Edmonton (1998) |
| | | 210 nests | 1991 | Brechtel, NRS Edmonton (1998) |

California Gull

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Pelican Lake | 30-78-21-W4 | 100-500 nests | 1967 | Vermeer (1970a); Ealey (1986) |

Double-crested Cormorant

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Pelican Lake | 30-78-21-W4 | 0 nests | 1967 | Brechtel (1981) |
| | | 242 nests | 1978 | Brechtel (1981) |
| | | 100 nests | 1980 | Brechtel (1981) |

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**Location:** Perryvale A
**Map:** 83I/6
**Legal:** 2-63-22-W4
**Section** 2 **TP** 63 **RGE** 22 **MER** W4
**UTME:** 356000
**UTMN:** 6032400

**Description:** small conifer island in south part of small water body
**Notes:** 1998 Aerial Survey; Map 83I/6; XH104; 7 mi SE of Perryvale

**Observers:** Wayne Smith, Cliff Wallis
**Aerial Survey Date:** May 29-31 1998
**Ground Check:** No

**Species:** Great Blue Heron
**Nests (Aerial Survey):** 25 nests

**Historical Data:**

Great Blue Heron

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Perryvale A | 2-63-22-W4 | 28 nests | 1984 | St. Paul NRS (1998) |

| | | | | |
|---|---|---|---|---|
| | | 18 nests | 1990 | St. Paul NRS (1998) |
| | | 10 nests | 1993 | St. Paul NRS (1998) |

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**Location:** Pigeon Lake 1
**Map:** 83A/13
**Legal:** E27-46-28-W4
**Section** E27 **TP** 46 **RGE** 28 **MER** W4
**UTME:** 300432
**UTMN:** 5875423

**Description:** normal water level; rocky with a few forbs, island; late fledgling stage
**Notes:** 1998 Ground Survey; Map 83 H; X226; just west of reserve, tiny island

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/25
**Ground Check:** Yes

**Species:** California Gull
**Nests (Ground Survey):** 174
**Nests (Aerial Survey):** part of 100 nests
**Adults:** 270

**Species:** Franklin's Gull
**Adults:** 400

**Species:** Herring Gull
**Adults:** 1

**Species:** Ring-billed Gull
**Nests (Ground Survey):** 19
**Nests (Aerial Survey):** part of 100 nests
**Adults:** 30

**Species:** Western Grebe
**Adults:** 70

**Historical Data:**

California Gull

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Pigeon Lake | 34-46-28-W4 | active colony | 1977 | Ealey (1986) |

Ring-billed Gull

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Pigeon Lake | 34-46-28-W4 | active colony | 1977 | Ealey (1986) |

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**Location:** Pigeon Lake 2
**Map:** 83G/1
**Legal:** NW6-47-1-W5

**Section** NW6 **TP** 47 **RGE** 1 **MER** W5
**UTME:** 691000
**UTMN:** 5879000

**Description:** wooded south shore of lake at west end of Pigeon Lake P.P.
**Notes:** 1998 Aerial Survey; BSOD (1998) 384-391

**Observers:** Wayne Smith, Cliff Wallis
**Aerial Survey Date:** May 29-31 1998
**Ground Check:** No

**Species:** Great Blue Heron
**Nests (Aerial Survey):** 10 nests

**Historical Data:**

Great Blue Heron

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Pigeon Lake | NW6-47-1-W5 | 12 nests | 1977 | Brechtel (1981); 2--Map 83 G |
| | | 5 nests | 1978 | Brechtel (1981) |
| | | 10 nests | 1979 | Brechtel (1981) |
| | | 11 nests | 1982 | BSOD (1998) |
| | | 16 nests | 1984 | BSOD (1998) |
| | | 16 nests | 1985 | BSOD (1998) |
| | | 14 nests | 1986 | BSOD (1998) |
| | | 16 nests | 1987 | BSOD (1998) |

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**Location:** Portage Lake 1
**Map:** 83I/16
**Legal:** 10-69-14-W4
**Section** 10 **TP** 69 **RGE** 14 **MER** W4
**UTME:** 432722
**UTMN:** 6090655

**Description:** nesting in area
**Notes:** 1998 Ground Survey; 13 mi N of Lac la Biche; X191=XH107; bigger island further from S shore

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/03
**Ground Check:** Yes

**Species:** American White Pelican
**Nests (Ground Survey):** 3
**Adults:** 15

**Species:** Double-crested Cormorant
**Nests (Ground Survey):** 2783
**Nests (Aerial Survey):** 500 nests
**Adults:** 2500

**Species:** Franklin's Gull
**Adults:** 100

**Species:** Great Blue Heron
**Nests (Ground Survey):** 1
**Nests (Aerial Survey):** not seen
**Adults:** 1

**Species:** Ring-billed Gull
**Nests (Ground Survey):** 10
**Nests (Aerial Survey):** <50 gulls
**Adults:** 50

**Historical Data:**

Double-crested Cormorant

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Portage Lake | 10-69-14-W4 | 100 nests | 1988 | St. Paul NRS (1998); north of Lac la Biche |
| | | 75 nests | 1989 | St. Paul NRS (1998) |
| | | 708 nests | 1991 | St. Paul NRS (1998) |
| | | 1000 nests | 1993 | St. Paul NRS (1998) |
| | | surveyed (no data) | 1997 | St. Paul NRS (1998) |

Great Blue Heron

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Portage Lake | 10-69-14-W4 | 25 nests | 1988 | St. Paul NRS (1998); north of Lac la Biche |
| | | 0 nests | 1989 | St. Paul NRS (1998) |
| | | 19 nests | 1991 | St. Paul NRS (1998) |
| | | 31 nests | 1993 | St. Paul NRS (1998) |
| | | surveyed (no data) | 1994 | St. Paul NRS (1998) |

Ring-billed Gull

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Portage Lake | 10-69-14-W4 | 120 nests | 1991 | St. Paul NRS (1998) |
| | | 69 nests | 1993 | St. Paul NRS (1998) |
| | | surveyed (no data) | 1994 | St. Paul NRS (1998) |

**Location:** Portage Lake 2
**Map:** 83I/16
**Legal:** 10-69-14-W4
**Section** 10 **TP** 69 **RGE** 14 **MER** W4
**UTME:** 432775
**UTMN:** 6090496

**Description:** normal water level; dirt island with patches of low shrubs; dead birch and spruce spars; nestling stage; 38 tree nests
**Notes:** 1998 Ground Survey; Map 83I/16; 13 mi north of Lac la Biche; X191=XH107; smaller island closer to S shore

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/03
**Ground Check:** Yes

**Species:** Double-crested Cormorant
**Nests (Ground Survey):** 38
**Adults:** 30

**Species:** Great Blue Heron
**Nests (Ground Survey):** 1
**Adults:** 1

**Historical Data:**

Great Blue Heron

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Portage Lake | 10-69-14-W4 | 25 nests | 1988 | St. Paul NRS (1998); north of Lac la Biche |
| | | 0 nests | 1989 | St. Paul NRS (1998) |
| | | 19 nests | 1991 | St. Paul NRS (1998) |
| | | 31 nests | 1993 | St. Paul NRS (1998) |
| | | surveyed (no data) | 1994 | St. Paul NRS (1998) |

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**Location:** Prefontaine Lake
**Map:** 83G/15
**Legal:** 32-55-6-W5
**Section** 32 **TP** 55 **RGE** 6 **MER** W5
**UTME:** 641147
**UTMN:** 5962652

**Description:** normal water level; white birch and spruce spars, bare dirt/forbs, low willow; 65 nests in trees, 15 ground; large nestling; surveyed from S shore
**Notes:** 1998 Ground Survey; Map 83G/15; E island; X229=XH108; 6 mi SE of Sangudo; access at south side SW of island

**Observers (Ground Survey):** Cliff Wallis
**Ground Survey Date:** 1998/07/02
**Ground Check:** Yes

**Species:** Double-crested Cormorant

**Nests (Ground Survey):** 80
**Nests (Aerial Survey):** 60 nests
**Adults:** 60

**Species:** Great Blue Heron
**Nests (Ground Survey):** 3
**Nests (Aerial Survey):** not found
**Adults:** 1

**Historical Data:**

Double-crested Cormorant

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Prefontaine Lake | 32-55-6-W5 | 0 nests | 1976 | St. Paul NRS (1998); eastern island |
| | | 16 nests | 1986 | St. Paul NRS (1998) |
| | | 80 nests | 1990 | St. Paul NRS (1998) |
| | | 58 nests | 1992 | St. Paul NRS (1998) |

Great Blue Heron

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Prefontaine Lake | 32-55-6-W5 | 12 nests | 1986 | St. Paul NRS (1998); eastern island |
| | | 9 nests | 1987 | St. Paul NRS (1998) |
| | | 1 nest | 1988 | St. Paul NRS (1998) |
| | | 10 nests | 1990 | St. Paul NRS (1998) |
| | | 9 nests | 1992 | St. Paul NRS (1998) |

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**Location:** Raft Lake
**Map:** 73E/10
**Legal:** 5-54-5-W4
**Section** 5 **TP** 54 **RGE** 5 **MER** W4
**UTME:** 520100
**UTMN:** 5942750

**Description:** aspen, northeast side of lake
**Notes:** 1998 Aerial Survey; Map 73E/10; XH110

**Observers:** Wayne Smith, Cliff Wallis
**Aerial Survey Date:** May 29-31 1998
**Ground Check:** No

**Species:** Great Blue Heron
**Nests (Aerial Survey):** 10 nests

**Historical Data:**

Great Blue Heron

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Raft Lake | 5-54-5-W4 | 9 nests | 1981 | St. Paul NRS (1998) |
| | | 8 nests | 1982 | St. Paul NRS (1998) |
| | | 15 nests | 1985 | St. Paul NRS (1998) |

| | | | | |
|---|---|---|---|---|
| | | 16 nests | 1988 | St. Paul NRS (1998) |
| | | 7 nests | 1991 | St. Paul NRS (1998) |
| | | 8 nests | 1993 | St. Paul NRS (1998) |

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**Location:** Rattlesnake Lake 1
**Map:** 72E/14
**Legal:** N7-12-8-W4
**Section** N7 **TP** 12 **RGE** 8 **MER** W4
**UTME:** 494210
**UTMN:** 5536560

**Description:** high water; bare dirt, some low shrub, island; abandoned
**Notes:** 1998 Ground Survey; E most of 3 islands; 494221 5536389; photos 31/32

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/21
**Ground Check:** Yes

**Species:** Black Tern
**Adults:** 1

**Species:** California Gull
**Nests (Ground Survey):** 469
**Nests (Aerial Survey):** active
**Adults:** 600

**Species:** Double-crested Cormorant
**Nests (Ground Survey):** 23
**Adults:** 15

**Species:** Franklin's Gull
**Adults:** 2

**Species:** Ring-billed Gull
**Nests (Ground Survey):** 1441
**Nests (Aerial Survey):** active
**Adults:** 2000

**Species:** Western Grebe
**Adults:** 6

**Historical Data:**

- new survey location

**Location:** Rattlesnake Lake 2
**Map:** 72E/14
**Legal:** N7-12-8-W4
**Section** N7 **TP** 12 **RGE** 8 **MER** W4
**UTME:** 493758
**UTMN:** 5537098

**Description:** high water; bare dirt, some low shrub, willows, island; late fledgling stage
**Notes:** 1998 Ground Survey; central of 3 islands

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/21
**Ground Check:** Yes

**Species:** American White Pelican
**Adults:** 2

**Species:** California Gull
**Nests (Ground Survey):** 90
**Nests (Aerial Survey):** active
**Adults:** 200

**Historical Data:**

- new survey location

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**Location:** Rattlesnake Lake 3
**Map:** 72E/14
**Legal:** N7-12-8-W4
**Section** N7 **TP** 12 **RGE** 8 **MER** W4
**UTME:** 493601
**UTMN:** 5537065

**Description:** high water; half bare dirt/gravel, half forb, island
**Notes:** 1998 Ground Survey; W most of 3 islands; 494221 5536389; photos 31/32

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/21
**Ground Check:** Yes

**Species:** California Gull
**Nests (Ground Survey):** 12
**Nests (Aerial Survey):** active
**Adults:** 100

**Species:** Caspian Tern
**Nests (Ground Survey):** 13
**Nests (Aerial Survey):** active
**Adults:** 100

**Species:** Common Tern
**Nests (Ground Survey):** 55
**Adults:** 55

**Historical Data:**

Caspian Tern

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Rattlesnake Lake | unknown | pair | 1989 | Baresco (1989); Gollop (1989); nest with eggs |

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**Location:** Ribstone Creek
**Map:** 73D/3
**Legal:** 9-37-9-W4
**Section** 9 **TP** 37 **RGE** 9 **MER** W4
**UTME:** 483950
**UTMN:** 5780250

**Description:** poplars on east side of Ribstone Creek
**Notes:** 1998 Aerial Survey; BSOD (1998) 5660; 8831, 8820--9 miles NE of Coronation

**Observers:** Wayne Smith, Cliff Wallis
**Aerial Survey Date:** May 29-31 1998
**Ground Check:** No

**Species:** Great Blue Heron
**Nests (Aerial Survey):** 10+ nests

**Historical Data:**

- 17 nests found in February 1997

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**Location:** Rock Island Lake (Calling L area)
**Map:** 83P/11
**Legal:** 21-75-22-W4
**Section** 21 **TP** 75 **RGE** 22 **MER** W4
**UTME:** 351250
**UTMN:** 6153000

**Description:** two small rocky islands at east end of Rock Island Lake
**Notes:** 1998 Aerial Survey; Fish and Wildlife 1998 Ground Survey; X232; 14 mi N of Calling Lake; 46 American White Pelicans loafing

**Observers (Ground Survey):** M. Heckbert
**Ground Survey Date:** 1998/07/07
**Ground Check:** Alberta Fish and Wildlife

**Species:** California Gull/Ring-billed Gull
**Nests (Ground Survey):** 25 California and 177 California or Ring-billed
**Nests (Aerial Survey):** 200-250 nests

**Species:** Common Tern
**Nests (Ground Survey):** 16

**Historical Data:**

California Gull

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Rock Island Lake | x-75-22-W4 | surveyed (no data) | 1990 | St. Paul NRS (1998) |

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**Location:** Ross Lake
**Map:** 82H/2
**Legal:** NW30-2-22-W4
**Section** NW30 **TP** 2 **RGE** 22 **MER** W4
**UTME:** 360500
**UTMN:** 5446400

**Description:**
**Notes:** 1998 Aerial Survey; difficulty in securing permission to access

**Observers (Aerial Survey):** Wayne Smith, Cliff Wallis
**Aerial Survey Date:** May 29-31, 1998
**Ground Check:** Yes

**Species:** California Gull
**Nests (Aerial Survey):** part of <100 nests

**Species:** Ring-billed Gull
**Nests (Aerial Survey):** part of <100 nests

**Historical Data:**

California Gull

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Ross Lake | NW30-2-22-W4 | part of 80 nests & part of 482 nests | 1975 | Ealey (1986); Berezay et al. (1975); 2 island colonies |

Ring-billed Gull

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Ross Lake | NW30-2-22-W4 | part of 80 nests & part of 482 nests | 1975 | Ealey (1986); Berezay et al. (1975); 2 island colonies |

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**Location:** Sandy Lake
**Map:** 73E/13
**Legal:** S21-56-13-W4
**Section** S21 **TP** 56 **RGE** 13 **MER** W4
**UTME:** 442670
**UTMN:** 5967436

**Description:** low water; poplar with some spruce and dead spars; nestling stage; back from shore, NW corner
**Notes:** 1998 Ground Survey; Map 73E/13; X234=XH116; 9 mi S of Hamlin

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/07
**Ground Check:** Yes

**Species:** Double-crested Cormorant
**Nests (Ground Survey):** 27
**Nests (Aerial Survey):** 50 nests
**Adults:** 20

**Species:** Great Blue Heron
**Nests (Ground Survey):** 14
**Nests (Aerial Survey):** 10+ nests
**Adults:** 15

**Historical Data:**

Double-crested Cormorant

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Sandy Lake | S21-56-13-W4 | 0 nests | 1978 | St. Paul NRS (1998) |
| | | 7 nests | 1979-1980 | St. Paul NRS (1998) |
| | | 65 nests | 1984 | St. Paul NRS (1998) |
| | | 48 nests | 1985 | St. Paul NRS (1998) |
| | | 107 nests | 1987 | St. Paul NRS (1998) |
| | | 73 nests | 1989 | St. Paul NRS (1998) |
| | | 74 nests | 1990 | St. Paul NRS (1998) |
| | | 39 nests | 1992 | St. Paul NRS (1998) |
| | | surveyed (no data) | 1994 | St. Paul NRS (1998) |

Great Blue Heron

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Sandy Lake | S21-56-13-W4 | 9 nests | 1979 | St. Paul NRS (1998); Brechtel (1981) |
| | | 22 nests | 1980 | St. Paul NRS (1998); Brechtel (1981) |
| | | 10 nests | 1984 | St. Paul NRS (1998) |
| | | 20 nests | 1985 | St. Paul NRS (1998) |
| | | 5 nests | 1987 | St. Paul NRS (1998) |
| | | 3 nests | 1989 | St. Paul NRS (1998) |
| | | 12 nests | 1990 | St. Paul NRS (1998) |
| | | 13 nests | 1992 | St. Paul NRS (1998) |
| | | surveyed (no data) | 1994 | St. Paul NRS (1998) |

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**Location:** Schroeder Lake
**Map:** 83A/4
**Legal:** NE12-37-26-W4
**Section** NE12 **TP** 37 **RGE** 26 **MER** W4
**UTME:** 323400
**UTMN:** 5782600

**Description:** aspen on peninsula at west end of small water body
**Notes:** 1998 Aerial Survey; BSOD (1998) 400-404; 4 miles NW of Pine Lake (town)

**Observers:** Wayne Smith, Cliff Wallis
**Aerial Survey Date:** May 29-31 1998
**Ground Check:** No

**Species:** Great Blue Heron
**Nests (Aerial Survey):** 10 nests

**Historical Data:**

Great Blue Heron

- originally relocated here from Honeymoon Lake site

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Schroeder Lake | NW7-37-25-W4 | 1 nest | 1982 | BSOD (1998) |
| Schroeder Lake | NE12-37-26-W4 | 18 nests | 1967 | also in BSOD (1998) incorrectly as 12-36-26-W4 with 1 nest each year; Vermeer (1969b) lists in 18-37-26-W4 |
| | | occupied | 1976 | BSOD (1998) |
| | | 10 nests | 1978 | BSOD (1998) |
| | | 50 nests | 1982 | BSOD (1998) |
| | | 26 nests | 1987 | BSOD (1998) |

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**Location:** Scope (Hays) Reservoir 1
**Map:** 72L/4
**Legal:** 3+10-13-14-W4
**Section** 3+10 **TP** 13 **RGE** 14 **MER** W4
**UTME:** 440028
**UTMN:** 5545893

**Description:** high water; forb-weed island w ring of tall willow/poplars (nests), large bare areas; nestling stage
**Notes:** 1998 Ground Survey; NW of 2 big islands near center; X236 = XH117; 2 mi SE of Hays

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/19
**Ground Check:** Yes

**Species:** American White Pelican
**Nests (Ground Survey):** 1181
**Nests (Aerial Survey):** 1200 nests
**Adults:** 800

**Species:** Black Tern
**Adults:** 10

**Species:** Caspian Tern
**Adults:** 1

**Species:** Common Tern
**Adults:** 30

**Species:** Double-crested Cormorant
**Nests (Ground Survey):** 211
**Adults:** 20
**Notes:** 1998 Ground Survey; NW of 2 big islands near center; X236 = XH117; 2 mi SE of Hays

**Species:** Franklin's Gull

**Adults:** 200

**Species:** Great Blue Heron
**Nests (Ground Survey):** 8
**Nests (Aerial Survey):** not found
**Adults:** 3

**Species:** Ring-billed Gull
**Nests (Ground Survey):** 83
**Adults:** 250

**Historical Data:**

- see Scope (Hays) Reservoir 5

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**Location:** Scope (Hays) Reservoir 2
**Map:** 72L/4
**Legal:** 10-13-14-W4
**Section** 10 **TP** 13 **RGE** 14 **MER** W4
**UTME:** 440497
**UTMN:** 5545757

**Description:** high water; forb-weed island with ring of taller willow, poplar, large bare dirt areas; egg stage; dead nestlings from storms, renesting
**Notes:** 1998 Ground Survey; SE of 2 big islands near center; X236 = XH117; 2 mi SE of Hays

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/19
**Ground Check:** Yes

**Species:** American White Pelican
**Nests (Ground Survey):** 2665
**Nests (Aerial Survey):** active
**Adults:** 1000

**Species:** Double-crested Cormorant
**Nests (Ground Survey):** 32
**Nests (Aerial Survey):** active
**Adults:** 50

**Species:** Franklin's Gull
**Adults:** 150

**Species:** Ring-billed Gull
**Nests (Ground Survey):** 2340
**Nests (Aerial Survey):** active
**Adults:** 4000

**Species:** Western Grebe
**Adults:** 20

**Historical Data:**

- see Scope (Hays) Reservoir 5

**Location:** Scope (Hays) Reservoir 3
**Map:** 72L/4
**Legal:** SW10-13-14-W4
**Section** SW10 **TP** 13 **RGE** 14 **MER** W4
**UTME:** 439732
**UTMN:** 5544954

**Description:** high water, bare dirt, rose shrub island; 2/3 washed out, 1/3 egg stage nests
**Notes:** 1998 Ground Survey; S of 3 islands on W side; X236 = XH117; 2 mi SE of Hays

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/19
**Ground Check:** Yes

**Species:** American White Pelican
**Nests (Ground Survey):** 3
**Nests (Aerial Survey):** active
**Adults:** 4

**Species:** California Gull
**Nests (Ground Survey):** 50
**Nests (Aerial Survey):** active
**Adults:** 200

**Species:** Double-crested Cormorant
**Nests (Ground Survey):** 85
**Nests (Aerial Survey):** active
**Adults:** 30

**Species:** Ring-billed Gull
**Nests (Ground Survey):** 600
**Nests (Aerial Survey):** active
**Adults:** 1500

**Historical Data:**

- see Scope (Hays) Reservoir 5

**Location:** Scope (Hays) Reservoir 4
**Map:** 72L/4
**Legal:** NW3-13-14-W4
**Section** NW3 **TP** 13 **RGE** 14 **MER** W4
**UTME:** 439449
**UTMN:** 5545457

**Description:** high water; bare dirt, some forbs, small poplar patch, island; egg stage, deserted
**Notes:** 1998 Ground Survey; tiny middle of 3 islands on W side; X236 = XH117; 2 mi SE of Hays

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/19
**Ground Check:** Yes

**Species:** American White Pelican
**Nests (Ground Survey):** 1
**Nests (Aerial Survey):** active
**Adults:** 0

**Species:** California Gull
**Nests (Ground Survey):** 32
**Nests (Aerial Survey):** active
**Adults:** 100

**Species:** Caspian Tern
**Nests (Ground Survey):** 1
**Nests (Aerial Survey):** active
**Adults:** 2

**Species:** Ring-billed Gull
**Nests (Ground Survey):** 8
**Nests (Aerial Survey):** active
**Adults:** 25

**Historical Data:**

- see Scope (Hays) Reservoir 5

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**Location:** Scope (Hays) Reservoir 5
**Map:** 72L/4
**Legal:** W3-13-14-W4
**Section** W3 **TP** 13 **RGE** 14 **MER** W4
**UTME:** 439429
**UTMN:** 5545879

**Description:** high water; bare dirt, some forbs, big patch of low willow, island; washed out, some with eggs
**Notes:** 1998 Ground Survey; N of 3 islands on W side; X236 = XH117; 2 mi SE of Hays

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/19
**Ground Check:** Yes

**Species:** California Gull
**Nests (Ground Survey):** 146

**Nests (Aerial Survey):** active
**Adults:** 200

**Historical Data (whole reservoir):**

American White Pelican

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Scope (Hays) Reservoir | 3+10-13-14-W4 | 837 nests | 1989 | Brechtel, NRS Edmonton (1998) |
| | | 500 nests | 1993 | Brechtel, NRS Edmonton (1998) |
| | | 10 nests | 1995 | PNRS (1995) |
| | | 20 nests | 1996 | PNRS (1996) |

California Gull

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Scope (Hays) Reservoir | 3+10-13-14-W4 | colony | 1977 | Brechtel, NRS Edmonton (1998) |
| | | 3 colonies | 1979 | 3 islands |
| | | colony | 1995 | PNRS (1995) |

Caspian Tern

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Scope (Hays) Reservoir | 3+10-13-14-W4 | suspected nesting | 1991-1992 | Federation of Alberta Naturalists (1998); Koes and Taylor (1992) |
| | | 8 adults | 1996 | Sherrington (1996b) |

Double-crested Cormorant

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Scope (Hays) Reservoir | 3+10-13-14-W4 | 0 nests | 1967 | Brechtel (1981) |
| | | 25 nests | 1971 | Brechtel (1981) |
| | | 261 nests | 1976 | Brechtel (1981) |
| | | 306 nests | 1977 | Brechtel (1981) |
| | | 332 nests | 1978 | Brechtel (1981) |
| | | 394 nests | 1979 | Brechtel (1981) |
| | | 329 nests | 1980 | Brechtel (1981) |
| | | 70 nests | 1989 | Lethbridge NRS (1998) |
| | | 30 nests | 1993 | BSOD (1998); large island |

Great Blue Heron

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Scope (Hays) Reservoir | 3+10-13-14-W4 | 5 nests | 1993 | Brechtel, NRS Edmonton (1998); main island |

Ring-billed Gull

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Scope (Hays) Reservoir | 3+10-13-14-W4 | 3 colonies | 1979 | BSOD (1998); 3 islands |
| | | 200 nests | 1993 | PNRS (1998) |
| | | 500 nests | 1995 | PNRS (1998) |
| | | colony | 1997 | Brechtel, NRS Edmonton |

| | | | | |
|---|---|---|---|---|
| | | | | (1998); island N side lake, Cormorant/Gull colony |

**Location:** St. Mary Reservoir 1
**Map:** 82H/6
**Legal:** NW19-4-24-W4
**Section** NW19 **TP** 4 **RGE** 24 **MER** W4
**UTME:** 338652
**UTMN:** 5464592

**Description:** high water; bare dirt, some forbs, island; egg stage, abandoned
**Notes:** 1998 Ground Survey; island-Cormorant/Gull colony; X241; 6 mi SW of Spring Coulee

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/23
**Ground Check:** Yes

**Species:** American White Pelican
**Nests (Ground Survey):** 1
**Adults:** 5

**Species:** California Gull
**Nests (Ground Survey):** 307
**Nests (Aerial Survey):** part of 1000+ nests
**Adults:** 750

**Species:** Double-crested Cormorant
**Nests (Ground Survey):** 76
**Nests (Aerial Survey):** 80+ nests
**Adults:** 30

**Species:** Ring-billed Gull
**Nests (Ground Survey):** 15
**Nests (Aerial Survey):** part of 1000+ nests
**Adults:** 20

**Historical Data:**

California Gull

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| St. Mary Reservoir | NW19-4-24-W4 | 1000-3000 nests | 1968 | Vermeer (1970a) |
| | | part of 4835 nests | 1975 | Ealey (1986) |
| | | 1580 nests | 1976 | Ealey (1986); Weseloh (1978) |
| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
| St. Mary Reservoir | | part of 1180 gull nests | 1977 | Brechtel, NRS Edmonton (1998); island-Cormorant/Gull colony |
| continued | | 2 colonies | 1978 | BSOD (1998); Cormorant island & mainland NE of island |
| | | 4 colonies | 1979 | BSOD (1998); 3 islands & mainland |

Double-crested Cormorant

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| St. Mary Reservoir | NW19-4-24-W4 | 0 nests | 1967 | Brechtel (1981) |
| | | 19 nests | 1975 | Broadhead et al. (1975) |
| | | 21 nests | 1976 | Brechtel (1981) |
| | | 16 nests | 1977 | Brechtel (1981) |
| | | 30 nests | 1978 | Brechtel (1981) |
| | | 44 nests | 1979 | Brechtel (1981) |
| | | 29 nests | 1980 | Brechtel (1981) |
| | | 22 nests | 1989 | Lethbridge NRS (1998) |
| | | active | 1990 | BSOD (1998) |

Ring-billed Gull

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| St. Mary Reservoir | NW19-4-24-W4 | 1000-3000 nests | 1968 | Vermeer (1970a) |
| | | part of 4835 nests | 1975 | Ealey (1986) |
| | | 856 nests | 1976 | Ealey (1986); Weseloh (1978) |
| | | part of 1180 gull nests | 1977 | Brechtel, NRS Edmonton (1998); island-Cormorant/Gull colony |
| | | 2 colonies | 1978 | BSOD (1998); Cormorant island & mainland NE of island |
| | | 4 colonies | 1979 | BSOD (1998); 3 islands & mainland |

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**Location:** St. Mary Reservoir 2
**Map:** 82H/6
**Legal:** S3-5-24-W4
**Section** S3 **TP** 5 **RGE** 24 **MER** W4
**UTME:** 343536
**UTMN:** 5468682

**Description:** high water; grass-willow, island; now totally flooded but adults act like colony, 0 birds at nearby island
**Notes:** 1998 Ground Survey; new island at north end (2 islands)

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/23
**Ground Check:** Yes

**Species:** American White Pelican
**Adults:** 2

**Species:** Common Tern
**Adults:** 2

**Species:** Ring-billed Gull
**Nests (Ground Survey):** 0; no nests found despite apparent nesting on aerial survey
**Nests (Aerial Survey):** part of 80+ nests
**Adults:** 75

**Historical Data:**

New location from 1998 Ground and Aerial Survey

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**Location:** Stirling Lake
**Map:** 82H/10
**Legal:** 6-7-19-W4
**Section** 6 **TP** 7 **RGE** 19 **MER** W4
**UTME:** 387175
**UTMN:** 5487513

**Description:** low water; bare dirt-forb island; late fledgling stage
**Notes:** 1998 Ground Survey; small island N side; X242; 2 mi NW of Stirling

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/22
**Ground Check:** Yes

**Species:** American White Pelican
**Adults:** 25

**Species:** Black Tern
**Adults:** 2

**Species:** California Gull
**Nests (Ground Survey):** 130
**Nests (Aerial Survey):** part of 300+ nests
**Adults:** 250

**Species:** Caspian Tern
**Adults:** 2

**Species:** Double-crested Cormorant
**Nests (Ground Survey):** 27
**Nests (Aerial Survey):** not found
**Adults:** 20

**Species:** Franklin's Gull
**Adults:** 20

**Historical Data:**

California Gull

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Stirling Lake | | <100 nests | 1968 | Vermeer (1970a); Brechtel, NRS Edmonton (1998) |
| | | 962 nests | 1976 | Brechtel, NRS Edmonton (1998); Weseloh (1978) |
| | | 6 colonies | 1979 | Brechtel, NRS Edmonton (1998); 6 small islands N side |
| | | 100 nests | 1995 | PNRS (1998) |

Double-crested Cormorant

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Starling Lake | 6-7-19-W4 | 10 nests | 1995 | PNRS (1998) |

Ring-billed Gull

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Stirling Lake | | 1000-3000 nests | 1968 | Vermeer (1970a); Brechtel, NRS Edmonton (1998) |
| | | 218 nests | 1976 | Brechtel, NRS Edmonton (1998); Weseloh (1978) |
| | | 6 colonies | 1979 | Brechtel, NRS Edmonton (1998); 6 small islands N side |

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**Location:** Taber Lake 1
**Map:** 82H/16
**Legal:** SW10-10-16-W4
**Section** SW10 **TP** 10 **RGE** 16 **MER** W4
**UTME:** 420618
**UTMN:** 5517312

**Description:** high water; bare dirt with cattail ring; late fledgling stage
**Notes:** 1998 Ground Survey; X245; E most of 2 small islands at W end of N arm, may be one island in low water

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/21
**Ground Check:** Yes

**Species:** Black Tern
**Adults:** 2

**Species:** California Gull
**Nests (Ground Survey):** 30
**Nests (Aerial Survey):** part of 250 nests
**Adults:** 75

**Species:** Common Tern
**Adults:** 40

**Species:** Double-crested Cormorant
**Nests (Ground Survey):** 30
**Nests (Aerial Survey):** 50+ nests

**Adults:** 75

**Species:** Franklin's Gull
**Adults:** 50

**Historical Data:**

- see Taber Lake 3

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**Location:** Taber Lake 2
**Map:** 82H/16
**Legal:** SE9-10-16-W4
**Section** SE9 **TP** 10 **RGE** 16 **MER** W4
**UTME:** 420539
**UTMN:** 5517378

**Description:** high water; bare dirt with cattail ring; late fledgling stage
**Notes:** 1998 Ground Survey; X245; W most of 2 small islands at W end of N arm, may be one island in low water

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/21
**Ground Check:** Yes

**Species:** American White Pelican
**Adults:** 10

**Species:** California Gull
**Nests (Ground Survey):** 21
**Nests (Aerial Survey):** part of 250 nests
**Adults:** 10

**Species:** Double-crested Cormorant
**Nests (Ground Survey):** 63
**Nests (Aerial Survey):** 50+ nests
**Adults:** 100

**Historical Data:**

- see Taber Lake 3

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**Location:** Taber Lake 3
**Map:** 82H/16
**Legal:** NE4-10-16-W4
**Section** NE4 **TP** 10 **RGE** 16 **MER** W4
**UTME:** 420603
**UTMN:** 5516440

**Description:** high water; bare dirt with cattail ring; late fledgling stage; surveyed from shore
**Notes:** 1998 Ground Survey; new location; small island at W side of S arm

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/21
**Ground Check:** Yes

**Species:** American White Pelican
**Adults:** 3

**Species:** California Gull
**Nests (Ground Survey):** 20
**Adults:** 40

**Species:** Double-crested Cormorant
**Nests (Ground Survey):** 0; no nests found despite apparent nesting on aerial survey
**Nests (Aerial Survey):** 20+ nests
**Adults:** 8

**Historical Data (whole lake):**

- gulls reported nesting by Canadian Wildlife Service (1979a)

Double-crested Cormorant

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Taber Lake | | active | 1990 | Brechtel, NRS Edmonton (1998) |

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**Location:** Tilley B Reservoir
**Map:** 72L/12
**Legal:** SE31-18-12-W4
**Section** SE31 **TP** 18 **RGE** 12 **MER** W4
**UTME:** 454670
**UTMN:** 5601385

**Description:** high water; bare island, some grass-forb patches, 2 low willow patches; egg stage
**Notes:** 1998 Ground Survey; Cormorant island E central side of lake; X247; 7 mi NE of Tilley; same as Louisiana Lakes North of some authors

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/10
**Ground Check:** Yes

**Species:** California Gull
**Nests (Ground Survey):** 100
**Nests (Aerial Survey):** active
**Adults:** 150

**Species:** Caspian Tern
**Nests (Ground Survey):** 1
**Adults:** 2

**Species:** Common Tern
**Adults:** 2

**Species:** Double-crested Cormorant
**Nests (Ground Survey):** 386
**Nests (Aerial Survey):** active
**Adults:** 100

**Species:** Franklin's Gull
**Adults:** 50

**Species:** Ring-billed Gull
**Nests (Ground Survey):** 500
**Nests (Aerial Survey):** active
**Adults:** 1500

**Historical Data:**

California Gull

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Louisiana Lakes N. Colony | 9-17-10-W4 (erroneous location) | colony | 1977 | Brechtel, NRS Edmonton (1998); Cormorant/Gull colony; probably Tilley B |
| Tilley B Reservoir | 30-18-12-W4 | colony | 1978 | Brechtel, NRS Edmonton (1998); Cormorant island N end |
| | | colony | 1979 | Brechtel, NRS Edmonton (1998) |

Double-crested Cormorant

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Tilley B | 30-18-12-W4 | 0 nests | 1974 | Brechtel (1981) |
| Louisiana Lakes N. Colony | 9-17-10-W4 (erroneous location) | 20-30 nests | 1976 | Brechtel, NRS Edmonton (1998); Brechtel (1981); Cormorant/Gull colony; probably Tilley B |
| Tilley B | 30-18-12-W4 | 81 nests | 1977 | Brechtel, NRS Edmonton (1998) |
| | | 75 nests | 1978 | Brechtel, NRS Edmonton (1998) |
| | | 65 nests | 1979 | Brechtel, NRS Edmonton (1998) |
| | | 22 nests | 1980 | Brechtel (1981) |
| | | 125 nests | 1989 | Lethbridge NRS (1998) |

Great Blue Heron

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Louisiana Lakes | | active | 1979 | Canadian Wildlife Service (1979b) |

Ring-billed Gull

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Louisiana Lakes N. Colony | 9-17-10-W4 (erroneous location) | colony | 1977 | Brechtel, NRS Edmonton (1998); Cormorant/Gull colony; probably Tilley B |
| Tilley B Reservoir | 30-18-12-W4 | colony | 1978 | Brechtel, NRS Edmonton (1998); Cormorant island N end |
| | | colony | 1979 | Brechtel, NRS Edmonton (1998) |

**Location:** Tyrell Lake
**Map:** 82H/8
**Legal:** NW9-5-17-W4
**Section** NW9 **TP** 5 **RGE** 17 **MER** W4
**UTME:** 409550
**UTMN:** 5469722

**Description:** low water; grass-some forb, island
**Notes:** 1998 Ground Survey; small man made islands southeast of road on smaller part

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/22
**Ground Check:** Yes

**Species:** Double-crested Cormorant
**Nests (Ground Survey):** 5
**Adults:** 5

**Species:** Double-crested Cormorant
**Nests (Ground Survey):** 0; no nests found despite apparent nesting on aerial survey
**Nests (Aerial Survey):** 10+ nests
**Adults:** 0

**Historical Data:**

- new survey location

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**Location:** Upper Therien Lake
**Map:** 73E/14
**Legal:** SE5-58-9-W4
**Section** SE5 **TP** 58 **RGE** 9 **MER** W4
**UTME:** 480923
**UTMN:** 5980980

**Description:**
**Notes:** 1998 Ground Survey; Map 73E/14; 2 colonies; X249; St. Paul

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/07
**Ground Check:** Yes

**Species:** California Gull
**Nests (Ground Survey):** 258
**Nests (Aerial Survey):** part of 250 nests
**Adults:** 200

**Species:** Herring Gull
**Adults:** 20

**Historical Data:**

California Gull

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Upper Therien Lake | 32-57-9-W4 | 300-400 nests | 1981 | St. Paul NRS (1998); 2 colonies; different location than 1998 |
| | | 760 nests | 1982 | St. Paul NRS (1998) |

Ring-billed Gull

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Upper Therien Lake | 32-57-9-W4 | 200 nests | 1981 | St. Paul NRS (1998); 2 colonies; different location than 1998 |

**Location:** Utikuma Lake - North Island
**Map:** 82O
**Legal:** SW7-80-9-W5
**Section** SW7 **TP** 80 **RGE** 9 **MER** W5

**Description:** smaller island near northern shore
**Notes:** Fish and Wildlife Ground Survey; Map 83 O; X251

**Observers (Ground Survey):** M. Heckbert
**Ground Survey Date:** 1998/07/03
**Ground Check:** Alberta Fish and Wildlife

**Species:** American White Pelican
**Nests (Ground Survey):** 0

**Species:** California Gull
**Nests (Ground Survey):** 13

**Species:** Common Tern
**Nests (Ground Survey):** 34

**Species:** Double-crested Cormorant
**Nests (Aerial Survey):** 0

**Species:** Ring-billed Gull
**Nests (Ground Survey):** 5

**Species:** Western Grebe
**Nests (Ground Survey):** 64

**Historical Data:**

American White Pelican

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Utikuma L (N Island) | SW7-80-9-W5 | 0 nests | 1967 | Brechtel (1981) |
| | | 9 nests | 1970 | Brechtel (1981) |
| | | active | 1971-1974 | Brechtel (1981) |
| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
| Utikuma L (N Island) | | 97 nests | 1978 | Brechtel (1981) |
| continued | | active | 1979 | Brechtel (1981) |
| | | 16 nests | 1980 | Brechtel (1981) |
| | | 2 nests | 1985 | Brechtel, NRS Edmonton (1998) |
| | | part of 150 nests | 1989 | Brechtel, NRS Edmonton (1998); N + S islands |

California Gull

- see Utikuma Lake South Island

Double-crested Cormorant

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| Utikuma L (N Island) | SW7-80-9-W5 | 0 nests | 1967, 1970 | Brechtel (1981) |
| | | active | 1971-1974 | Brechtel (1981) |
| | | 61 nests | 1978 | Brechtel (1981) |
| | | 69 nests | 1979 | Brechtel (1981) |
| | | active | 1980 | Brechtel (1981) |

**Location:** Utikuma Lake - South Island
**Map:** 83O
**Legal:** E31-78-9-W5
**Section** E31 **TP** 78 **RGE** 9 **MER** W5

**Description:** western most of group of islands near southern shore
**Notes:** Fish and Wildlife Ground Survey; Map 83 O; X252

**Observers (Ground Survey):** M. Heckbert
**Ground Survey Date:** 1998/07/03
**Ground Check:** Alberta Fish and Wildlife

**Species:** American White Pelican
**Nests (Ground Survey):** 126
**Nests (Aerial Survey):**

**Species:** Double-crested Cormorant
**Nests (Ground Survey):** 87

**Species:** Western Grebe
**Nests (Ground Survey):** 39

**Historical Data:**

American White Pelican

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Utikuma L (S Island) | E31-78-9-W5 | 0 nests | 1967 | Brechtel (1981) |
| | | inactive | 1966-1970 | Brechtel (1981) |
| | | active | 1971-1974 | Brechtel (1981) |
| | | 0 nests | 1976 | Brechtel (1981) |
| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
| Utikuma L (S Island) | | 20 nests | 1978 | Brechtel (1981) |
| continued | | 12 nests | 1979 | Brechtel (1981) |
| | | 15-25 nests | 1980 | Brechtel (1981) |
| | | 17 nests | 1985 | Brechtel, NRS Edmonton (1998) |
| | | part of 150 nests | 1989 | Brechtel, NRS Edmonton (1998); N + S islands |

California Gull (whole lake)

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Utikuma L | | 500-1000 nests | 1967 | Vermeer (1970a); Ealey (1986); whole lake |

Double-crested Cormorant

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Utikuma L (S Island) | E31-78-9-W5 | 0 nests | 1967 | Brechtel (1981) |
| | | 6 nests | 1970 | Brechtel (1981) |
| | | active | 1971-1974 | Brechtel (1981) |
| | | 8 nests | 1976 | Brechtel (1981) |
| | | 14 nests | 1978 | Brechtel (1981) |
| | | 20 nests | 1979 | Brechtel (1981) |
| | | 25 nests | 1980 | Brechtel (1981) |

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**Location:** Vincent (west of)
**Map:** 73L/3
**Legal:** 27-59-10-W4
**Section** 27 **TP** 59 **RGE** 10 **MER** W4
**UTME:** 472150
**UTMN:** 5997500

**Description:** small wooded island in very small water body west of Vincent Lake
**Notes:** 1998 Aerial Survey; Map 73L/3; XH130; 3 mi NE of Abilene

**Observers:** Wayne Smith, Cliff Wallis
**Aerial Survey Date:** May 29-31 1998
**Ground Check:** No

**Species:** Great Blue Heron
**Nests (Aerial Survey):** 20 nests

**Historical Data:**

Great Blue Heron

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Vincent (west of) | 27-59-10-W4 | 50-100 nests | 1987 | St. Paul NRS (1998) |
| | | 25 nests | 1988 | St. Paul NRS (1998) |
| | | 30 nests | 1989 | St. Paul NRS (1998) |
| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
| Vincent (west of) | | 20 nests | 1990 | St. Paul NRS (1998) |
| continued | | 20 nests | 1992 | St. Paul NRS (1998) |

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**Location:** Waterton Reservoir
**Map:** 82H/5
**Legal:** 14-4-28-W4
**Section** 14 **TP** 4 **RGE** 28 **MER** W4
**UTME:** 305879
**UTMN:** 5463870

**Description:** high water; bare dirt-forb-rose island; late fledgling stage; extrapolated from 46 X 5 m transect
**Notes:** 1998 Ground Survey; island at E shore; X254; 2 mi W of Hillspring

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/23
**Ground Check:** Yes

**Species:** American White Pelican
**Adults:** 15

**Species:** California Gull
**Nests (Ground Survey):** 405
**Nests (Aerial Survey):** active colony
**Adults:** 570

**Species:** Double-crested Cormorant
**Nests (Ground Survey):** 33
**Nests (Aerial Survey):** no cormorants seen
**Adults:** 20

**Species:** Ring-billed Gull
**Nests (Ground Survey):** 135
**Nests (Aerial Survey):** active colony
**Adults:** 190

**Historical Data:**

Double-crested Cormorant

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Waterton Reservoir | 15-4-28-W4 | active | 1983 | Lethbridge NRS (1998) |
| | | 200 adults + nests | 1984 | Ealey (1986) |

**Location:** Winagami Lake
**Map:** 83N
**Legal:** NW26-76-18-W4
**Section** NW26 **TP** 76 **RGE** 18 **MER** W4

**Description:** New colonial nesting location
**Notes:** Not Surveyed in 1998 Aerial Survey; Fish and Wildlife 1998 Ground Survey

**Observers (Ground Survey):** M. Heckbert
**Ground Survey Date:** 1998/06/25
**Ground Check:** Alberta Fish and Wildlife

**Species:** California Gull
**Nests (Ground Survey):** 122

**Species:** Common Tern
**Nests (Ground Survey):** 149

**Historical Data:**

- new survey location

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**Location:** Wolf Lake
**Map:** 73L/11
**Legal:** SE9-66-7-W4
**Section** SE9 **TP** 66 **RGE** 7 **MER** W4
**UTME:** 500436
**UTMN:** 6060108

**Description:** normal water level; spruce-fir-poplar-birch woods; nestling stage; count lower by 10-15% ( hard to see in spruce), colony back from shore at peninsula tip
**Notes:** 1998 Ground Survey; not at locale in BSOD

**Observers (Ground Survey):** Wayne Smith, Ray Wershler
**Ground Survey Date:** 1998/06/05
**Ground Check:** Yes

**Species:** Great Blue Heron
**Nests (Ground Survey):** 24
**Nests (Aerial Survey):** not found
**Adults:** 40

**Species:** American White Pelican
**Adults:** 3

**Species:** Black Tern
**Adults:** 6

**Species:** Common Tern
**Adults:** 1

**Species:** Franklin's Gull
**Adults:** 30

**Species:** Western Grebe

**Adults:** 14

**Historical Data:**

Great Blue Heron

| LOCATION | LEGAL | # OF NESTS | YEAR | NOTES |
|---|---|---|---|---|
| Wolf Lake | 4-66-7-W4 | 25 nests | 1978 | St. Paul NRS (1998) |
| | | 15 nests | 1979 | St. Paul NRS (1998) |
| | | 25 nests | 1981 | St. Paul NRS (1998) |
| | | 40 nests | 1983 | St. Paul NRS (1998) |
| | | 40 nests | 1985 | St. Paul NRS (1998) |
| | | 42 nests | 1988 | St. Paul NRS (1998) |
| | | 40 nests | 1989 | St. Paul NRS (1998) |
| | | 20 nests | 1991 | St. Paul NRS (1998) |
| | | 10 nests | 1993 | St. Paul NRS (1998) |

## 3.2 INACTIVE OR SMALL FORMERLY ACTIVE COLONIES

| Species | Location | Legal | Nests | Notes |
|---|---|---|---|---|
| Great Blue Heron | Albert Creek | 523502, 11, 53252 | small | Bruns (1998); Not Surveyed in 1998 Aerial Survey; SE Slopes region; not mapped (not in gazetteer); had 5 nests in 1997; unknown location |
| Double-crested Cormorant | Astotin Lake (East, beaver pond) | 19-54-19-W4 | small/inactive; not surveyed | St. Paul NRS (1998); Not Surveyed in 1998 Aerial Survey; Map 83H/10; X141; Elk Island NP; 11 nests 1988; 13 nests 1989; 22 nests 1990; 17 nests 1991; 9 nests 1992; 6 nests 1993; surveyed (no data) 1994 |
| Great Blue Heron | Athabasca River | 7-92-10-W4 | small, active | Ealey (1986); Not Surveyed in 1998 Aerial Survey; Map 74D/14; no #; XH4; 5 miles S of Mildred L on Cache Ck; active in 1985 |
| Great Blue Heron | Baptiste River (South Fork) | NE16-41-12-W5 | small/inactive; not surveyed | Bruns (1998); Not Surveyed in 1998 Aerial Survey; XH6; 23 mi WNW of Crimson Lake PP; 12 nests, 1995 |
| Great Blue Heron | Battle Lake | 11-46-2-W5 | small/inactive; not surveyed | Ealey (1986); Not Surveyed in 1998 Aerial Survey; Map 83B/16; XH 7; 5 mi SW of Pigeon L PP; 1 nest 1980 |
| Great Blue Heron | Battle Creek-Springdale | 4-44-27-W4 | small/inactive; not surveyed | BSOD (1998); Not Surveyed in 1998 Aerial Survey; BSOD (1998) 429--creek, 6 miles SE of Springdale; 2 nests 1987 |
| Great Blue Heron | Battle River--Big Knife Old | NE16-41-17-W4 | extinct (see new colony immediately west) | 1998 Aerial Survey; Map 83 A; XH 9; 7 mi NW of Big Knife PP; 12 nests 1967, not found 1978 or 1982; Red Deer NRS (1998) |
| Great Blue Heron | Battle River--Battle Bend SE | NW4-40-10-W4 | not found (see new location west) | 1998 Aerial Survey; BSOD (1998) 309--3 miles SE of Battle Bend; 3 nests 1978; Red Deer NRS (1998) |
| Great Blue Heron | Battle River--Alliance 1 | 36-39-13-W4 | not found | 1998 Aerial Survey; BSOD (1998) 8821; 3 miles SE of Alliance; 14 nests in winter survey of Jan 1998; may have been mislocated on map; other locations close by |
| Great Blue Heron | Battle River--Alliance 2 | 19-39-12-W4 | not found | 1998 Aerial Survey; BSOD (1998) 5690--5 miles SE of Alliance; 4 nests 1973 |
| Great Blue Heron | Beaverdam Creek | SE21-28-3-W5 | not found | 1998 Aerial Survey; Brechtel (1981); Vermeer (1969b); BSOD (1998) 311-318; 3 miles SE of Dogpound; 25 nests 1965; 33 nests 1967; 50 nests 1972; 46 nests 1973; 38-50 nests 1974; 30 nests 1978; 27 nests 1982; 25 nests 1987 |
| Great Blue Heron | Beaverhill Lake | 24-52-18-W4 | extinct | 1998 Aerial Survey; St. Paul NRS (1998); BSOD (1998); Weseloh et al. (1977); extinct after 1978; north end of lake; XH12; 3 nests 1975; 20 nests 1976; 1 nest 1978; extinct thereafter |
| Great Blue Heron | Belly River | 22-4-27-W4 | extinct | 1998 Aerial Survey; Vermeer (1969b); BSOD (1998); Gudmondson, personal communication; 3 mi NE of Hillspring; XH13; 55 nests 1967; 1 nest 1982 |
| Great Blue Heron | Belly River | 27-6-25-W4 | extinct; part of main river channel now | 1998 Aerial Survey; BSOD (1998); Gudmondson, personal communication; 1.5 mi S of junction of Belly and Waterton Rivers; XH14; 4 nests (0 active) 1982 |
| Great Blue Heron | Berry Creek | 26-23-13-W4 | inactive/small | 1998 Aerial Survey; BSOD (1998) 320--7 miles W of Cessford; no suitable habitat; mislabelled?; 30 nests 1987 |
| American White Pelican | Birch Lake | NE8-95-17-W4 | not surveyed | St. Paul NRS (1998); Not Surveyed in 1998 Aerial Survey; Map 84H/2; X148; 9 mi S of Namur L; 120 nests in 1980 (Beaver 1980); 140 nests 1976; 70 nests 1977; 0 nests 1978; 50 nests 1980; 59 nests 1985; 0 nests 1989 and 1991 |
| California Gull | Birch Lake | 9-95-17-W4 | not surveyed | St. Paul NRS (1998); Ealey (1986); Not Surveyed in 1998 Aerial Survey; Map 84H/2; X148; 9 mi S of Namur L; 15 pairs 1976; 20 pairs 1977; 30 nests 1985; surveyed 1991 (no data) |
| Great Blue Heron | Birch River | SW8-109-14-W4 | not surveyed | St. Paul NRS (1998); Brechtel (1981); Ealey (1986); Not Surveyed in 1998 Aerial Survey; Map 84I/8; XH32 (Claire L); delta, southwest of L. Claire; XH16; 12 nests 1977 |

| | | | | |
|---|---|---|---|---|
| Ring-billed Gull | Birch River Delta | 8-109-14-W4 | not surveyed | PNRS (1998); Not Surveyed in 1998 Aerial Survey; X259 = XH16; 1 fledged young 12 Aug, 1978 (PNRS) |
| California Gull | Bistcho Lake | 1-123-5-W6 | not surveyed | Ealey (1986); Not Surveyed in 1998 Aerial Survey; Map 84 M; X150; 4 mi W of Jackfish Pt.; large colony (no date); no mention of this colony by McGillivray and Hastings (1988) |
| Great Blue Heron | Blindman River | NE28-43-2-W5 | inactive/small | BSOD (1998) 319; Not surveyed in 1998 Aerial Survey; 3 miles SE of Bluffton; 3 nests 1987 |
| Great Blue Heron | Bolloque Lake | 11-64-25-W4 | inactive | St. Paul NRS (1998); BSOD (1998); 1998 Aerial Survey; Map 83I/12; 7 mi SE of Cross L; XH19; 1 nest 1976; 1 nest 1980; 0 nests 1983, 1988 and 1993; prob. extinct |
| Great Blue Heron | Bow River - Arrowwood | 12-21-23-W4 | inactive/ small | 1998 Aerial Survey; 4 miles NE of Arrowwood; BSOD (1998) 329; Brechtel (1981); 20-23 nests 1972; 38 nests 1982 |
| Great Blue Heron | Bow River - Grand Forks | SW8-12-12-W4 | inactive; nests found | 1998 Aerial Survey; BSOD (1998); 3 mi up from the Grand Forks; XH21; 10 nests 1972; occupied 1977; 20 nests 1978; 12 nests 1982 |
| Great Blue Heron | Bow River-Calgary Cominco | 6-23-29-W4 | inactive/small | 1998 Aerial Survey; XH22; PNRS (1998); BSOD (1998); opposite Carburn Park, Calgary; 1 nest 1991 and 1992 |
| Great Blue Heron | Bow River - Carseland East | E35-21-25-W4 | inactive/small | 1998 Aerial Survey; Vermeer (1969b); BSOD (1998) 330-332; Brechtel (1981); 6 miles SE of Carseland; 18 nests 1967; 13 nests 1978; 0-30 nests 1982 |
| Great Blue Heron | Bow River - Carseland West | S23-21-26-W4 | inactive/small | 1998 Aerial Survey; Vermeer (1969b); BSOD (1998) 321-328; Brechtel (1981); 5 miles SSW of Carseland; 30 nests 1965; 34 nests 1967; 41 nests 1972; 16 nests 1973; 19-34 nests 1974; 46 nests 1975; 20 nests 1978; 35 nests 1982 |
| Great Blue Heron | Buck Lake A | 13-46-6-W5 | extinct | 1998 Aerial Survey; BSOD (1998) 335; habitat cleared; 12 nests 1978; 19 nests 1982 |
| Great Blue Heron | Buck Lake B | 9-46-6-W5 | inactive | 1998 Aerial Survey; BSOD (1998) 392 --off SW end lake, 1 mile W of town Buck Lake; 50 nests 1976; active 1982 |
| Great Blue Heron | Buck Lake C | 16-46-6-W5 | inactive | 1998 Aerial Survey; BSOD (1998) 333-334; off SW end lake, 2 miles NW of town Buck Lake; 30 nests 1979; 15 nests 1982 |
| Great Blue Heron | Buffalo Creek | SW-35-46-7-W4 | not surveyed in 1998 | BSOD (1998); Not surveyed in 1998 Aerial Survey; 16 nests seen in winter survey Jan 1998; originally in BSOD as W5 |
| Great Blue Heron | Bull's Head Coulee | 12-11-5-W4 | inactive/small | 1998 Aerial Survey; XH25; 4.5 mi S of Medicine Hat; 3 nests 1988 (PNRS 1998) |
| Great Blue Heron | Burbank (?Lake) | 13-39-27-W4 | inactive/small | BSOD (1998) 343; Not surveyed in 1998 Aerial Survey; 2 miles NE of Red Deer; 7 nests 1987 |
| Great Blue Heron | Calahoo B (Blacks Lake) | 36-54-28-W4 | inactive/small | St. Paul NRS (1998); Not surveyed in 1998 Aerial Survey; Map 83H/12; XH26; 10 mi NE of Spruce Grove; 1 nest 1982; 3 nests 1985; 1 nest 1988; 0 nests 1991 |
| Great Blue Heron | Cameron Lake | SE2-54-1-W5 | inactive/small | St. Paul NRS (1998); Brechtel (1981); Not surveyed in 1998 Aerial Survey; Map 83G/9; XH27; 5 mi NW of Spruce Grove; 1 nest 1976; 2 nests 1977; 4 nests 1978; 7 nests 1979; 8 nests 1980; 12 nests 1983; 0 nests 1985; 7 nests 1988; 6 nests 1991; 12 nests 1993 |
| Great Blue Heron | Clearwater River | NE13-35-9-W5 | inactive/small | Bruns (1998); Not surveyed in 1998 Aerial Survey; XH33; 9 mi SW of Ricinus; 5 nests 1997 |
| Great Blue Heron | Coal Lake | 31-47-23-W4 | inactive/small | BSOD (1998) 345-347; Brechtel (1981); Not surveyed in 1998 Aerial Survey; NW end of lake, 7 miles N of Wetaskiwin; 5 nests 1977; 7 nests 1978; 8 nests 1982 |
| Great Blue Heron | Coal Lake | 14-47-23-W4 | inactive/small | BSOD (1998) 344; Brechtel (1981); Not surveyed in 1998 Aerial Survey; W side of lake, 4 miles NE of Wetaskiwin; 50 nests 1975; extinct 1978 |
| Great Blue Heron | Coleman Lake | 2-29-14-W4 | inactive | 1998 Aerial Survey; BSOD (1998) 348-351; Brechtel (1981); 15 miles S of Hanna; occupied 1976; 2 nests 1978; 1 nest 1979, 1980 and 1982 |
| Great Blue Heron | Cow Lake | 11-38-8-W5 | not found | 1998 Aerial Survey; Map 83 B; XH 35; 9 mi SW of Rocky Mtn House; 30-50 nests 1985 (Ealey 1986) |

| | | | | |
|---|---|---|---|---|
| California Gull | Cowoki Lake | 2-19-13-W4 | inactive, flooded | 1998 Aerial Survey; Map 72 L; X159; 9 mi E of Brooks; active 1967 (Ealey 1986) |
| Ring-billed Gull | Cowoki Lake | 2-19-13-W4 | inactive, flooded | 1998 Aerial Survey; Map 72 L; X159; 9 mi E of Brooks; active 1967 (Ealey 1986) |
| Great Blue Heron | Davey Lake | SE21-34-27-W4 | inactive/small | BSOD (1998) 430-431; Not surveyed in 1998 Aerial Survey; 9 miles SE of Innisfail; 7 nests 1995; 8 nests 1996 |
| Great Blue Heron | Delburne Lake | NW22-37-23-W4 | inactive/small | Red Deer NRS (1998); BSOD (1998) 352-353; Not surveyed in 1998 Aerial Survey; 2 miles SE of Delburne; 3 nests 1977 and 1978; also 3 nests in 1981 at 27-34-27-W4 in PNRS (1998), ?same location as below |
| Great Blue Heron | Delburne Lake | 27-34-27-W4 | inactive/small | Brechtel (1981); PNRS (1998); Not surveyed in 1998 Aerial Survey; 1 nest 1974; 3 nests 1981; ?same location as above |
| Double-crested Cormorant | Dillberry Lake PP | x-41-4-W4 | inactive/small | Ealey (1986); Not surveyed in 1998 Aerial Survey; Map 73 D; 20 nests reported in 1929 by Vermeer (1969a) |
| Great Blue Heron | Dillberry Lake PP | x-41-4-W4 | inactive/small | Ealey (1986); Not surveyed in 1998 Aerial Survey; Map 73 D; 5 nests on east shore of Freshwater Lake and 1 pair on east side of Dillbery Lake, 1974 |
| California Gull | Dowling Lake | NE12-32-15-W4 | inactive, lake dry | 1998 Aerial Survey; Weseloh (1978); Steve Brechtel, NRS (1998); X160; 6 mi NE of Hanna; 500-1000 nests 1968; 824 nests 1976; part of 6000 adults 1977; 2 colonies 1979 |
| Great Blue Heron | Dowling Lake | 5 or 7-32-14-W4 | inactive, lake dry | 1998 Aerial Survey; Vermeer (1969b); BSOD (1998) 354-358; off SE end lake, low willow bushes on island; 5 miles N of Hanna; 11 nests 1967; 11 nests 1968; 0 nests 1969; 16 nests 1976; 12 nests 1978; 34 nests 1979; active 1980 and 1982; also 20 nests in 1972 on pond near lake SW4-32-15-W4--extinct in 1978 |
| Double-crested Cormorant | Dowling Lake | NE12-32-15-W4 | inactive, lake dry | 1998 Aerial Survey; BSOD (1998); Brechtel (1981); 0 nests 1967 and 1975; 25 nests 1976; 27 nests 1977; 21 nests 1978; 34 nests 1979; 23 nests 1980 |
| Ring-billed Gull | Dowling Lake | NE12-32-15-W4 | inactive, lake dry | 1998 Aerial Survey; 2 islands; BSOD (1998); Weseloh (1978); Steve Brechtel, NRS (1998); X160; 6 mi NE of Hanna; 3000+ nests 1968; 5184 nests 1976; part of 6000 adults 1977; 2 colonies 1979 on 2 islands |
| California Gull | Eagle Lake | ?30-23-24-W4 | inactive | 1998 Aerial Survey; Steve Brechtel, NRS (1998); X161; 4 mi SE of Strathmore; 100-500 nests 1968; 0 nests 1976 |
| Ring-billed Gull | Eagle Lake | ?30-23-24-W4 | inactive | 1998 Aerial Survey; Steve Brechtel, NRS (1998); X161; 4 mi SE of Strathmore; 100-500 nests 1968; 0 nests 1976 |
| Great Blue Heron | East Hamilton Lake | 28-58-13-W4 | inactive | 1998 Aerial Survey; Map 73L/4; St. Paul NRS (1998); Brechtel (1981); XH42; near Stry (Saddle L area); 4 nests 1977; 0 nests 1990 |
| Great Blue Heron | Elbow River | 5-24-2-W5 | inactive/small | 1998 Aerial Survey; UTM916559, spruce stand on river edge; BSOD (1998); Ealey (1986); XH43; 4 nests 1984; active 1985 |
| Great Blue Heron | Elinor Lake | NW30-65-11-W4 | inactive/small | St. Paul NRS (1998); Brechtel (1981); Not surveyed in 1998 Aerial Survey; Map 73L/12; XH44; 3 nests 1977; 1 nest 1980; 0 nests 1991 |
| Double-crested Cormorant | Elk Island NP. | UQ 812-488 | inactive/small | Steve Brechtel, NRS (1998); Not surveyed in 1998 Aerial Survey; peninsula of a lake; not mapped; may = Astotin L; 13 nests 1989 |
| Great Blue Heron | Figure Lake | 2-63-18-W4 | inactive | 1998 Aerial Survey; Map 83I/7; no date, no #; Ealey (1986); XH47; 6 mi NE of Long Lake PP; no activity data--historical nest site |
| Great Blue Heron | Fish Creek | S36-22-1-W5 | extinct | Not surveyed in 1998 Aerial Survey; BSOD (1998) 361-366; Brechtel (1981); Map 82 J; 9 nests 1967; 22 nests 1973; 24-37 nests 1974; 7 nests 1978; 3 nests 1979; 6 nests 1980; 16 nests 1982 |
| Ring-billed Gull | Forsyth Lake | 6-62-6-W4 | inactive/small | 1998 Aerial Survey; Map 73L/7; St. Paul NRS (1998); X165; 4 mi N of Moose L PP; surveyed 1981 (no data) |

| | | | | |
|---|---|---|---|---|
| American White Pelican | Frank Lake | 19?-18-27-W4 | inactive/small | 1998 Aerial Survey; X166; colony existed in pre-war years; but as the area was used as a bombing range during the war, the colony was deserted; colony of 500 or more birds in 1960 (Hohn et al 1961) |
| California Gull | Frank Lake | 19?-18-27-W4 | inactive | 1998 Aerial Survey; Steve Brechtel, NRS (1998); Weseloh (1978); Wallis et al. (1996); X166; small colony at other location; part of 30 nests 1967; 100-500 nests 1968; 0 nests 1970 and 1989; 75 nests in Basin 3 1975; 311 nests in 1976; 3 nests 1994 |
| Double-crested Cormorant | Frank Lake | 19?-18-27-W4 | inactive/small | 1998 Aerial Survey; Wallis et al. (1996); X166; 4 nests 1994 |
| Ring-billed Gull | Frank Lake | 19?-18-27-W4 | inactive | 1998 Aerial Survey; Steve Brechtel, NRS (1998); Weseloh (1978); Wallis et al. (1996); X166; small colony at other location; part of 30 nests 1967; 100-500 nests 1968; 1017 nests 1976; 815 nests 1994 |
| Great Blue Heron | Galahad (area) | 9-41-14-W4 | extinct | 1998 Aerial Survey; BSOD (1998) 308; 1 mile W of Galahad; 7 nests 1967; extinct 1978 |
| Great Blue Heron | George Lake | NW28-57-1-W5 | inactive; old nests found | 1998 Aerial Survey; Map 83G/16; St. Paul NRS (1998); XH53; 9 mi E of Lac La Nonne; 4 nests 1982; 2 nests 1983; 1 nest 1985; 9 nests 1991; 4 nests 1993 |
| Double-crested Cormorant | George Lake | 28-57-1-W5 | inactive; old nests found | 1998 Aerial Survey; Map 83G/16; St. Paul NRS (1998); X170=XH53; 9 mi E of Lac La Nonne; 6 nests 1991; 8 nests 1993 |
| Double-crested Cormorant | George Lake (Hines Creek) | | suspected nesting | 1998 Fish and Wildlife Survey; island north of boat launch; may have had Great Blue Heron in past |
| Great Blue Heron | Ghost Pine Creek | 31-35-23-W4 | extinct | Brechtel (1981); BSOD (1998) 425-427; Not surveyed in 1998 Aerial Survey; 4 miles NW of Elnora; 12 nests 1978; 8 nests 1981; 7 nests 1982; extinct 1987 |
| California Gull | God's Lake | 18?-90-2-W5 | not surveyed | PNRS (1998); Not Surveyed in 1998 Aerial Survey; 15 miles NW of Peerless Lake; X171; 52 nests 1991 |
| Ring-billed Gull | God's Lake | 18?-90-2-W5 | not surveyed | PNRS (1998); Not Surveyed in 1998 Aerial Survey; 15 mi NE of Peerless L; X171; 1 nest June 6, 1991) |
| Great Blue Heron | Goodwin Lake | 20-74-11-W4 | not surveyed | St. Paul NRS (1998); Not Surveyed in 1998 Aerial Survey; Map 73M/5; island; XH54; off NW corner of Cold Lake base; 6 nests in 1986 (Westworth & Associates 1990); 4 nests 1990; 26 nests 1992; surveyed 1994 |
| Double-crested Cormorant | Graham Lake | approx 28-87-4-W4 | not surveyed | Brechtel (1981); Not Surveyed in 1998 Aerial Survey; X172; 22 mile NE of Gregoire L PP; 2 nests in 1980 (Westworth and Associates 1990) |
| California Gull | Grouard Channel | 20-75-14-W5 | inactive | 1998 Aerial Survey; Map 83N/9; Ealey (1986); X173; Grouard; active 1979 |
| Ring-billed Gull | Grouard Channel | 20-75-14-W5 | inactive | 1998 Aerial Survey; Map 83N/9; Ealey (1986); X173; Grouard; active 1979 |
| Great Blue Heron | Gull Lake | NW33-42-1-W5 | inactive/small | Ealey (1986); BSOD (1998) 367-368; Not surveyed in 1998 Aerial Survey; 6 miles E of Rimbey; 11 nests 1984; 5 nests 1987; also erroneously in BSOD as Rimbey area with 1 nest each year |
| Great Blue Heron | Highwood River A | SW1-19-29-W4 | extinct | 1998 Aerial Survey; Brechtel (1981); BSOD (1998) 371-372?; at town of High River; 23 nests 1969; 21 nests 1970; 23 nests 1973; extinct 1978 |
| Great Blue Heron | Highwood River B | N30-18-29-W4 | not found (wiped out by 96 flood?) | 1998 Aerial Survey; Brechtel (1981); BSOD (1998) 369-370--5 miles SW of High River; 5 nests 1978; 25 nests 1982; see Highwood River--Baker Creek entry |
| Great Blue Heron | Highwood River--Baker Creek | 33-18-29-W4 | extinct | BSOD (1998) 296-297; Not Surveyed in 1998 Aerial Survey; 14 nests in 1967, extinct in 1978; Vermeer (1969b); originally placed in BSOD as 28-29-18-W4 (near Delia) |

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| Great Blue Heron | Hondo Lake | 24-70-27-W4 | inactive; old nests found | 1998 Aerial Survey; Map 83P/4; island; St. Paul NRS (1998); XH56; 2 mi E of Hondo; 50 nests 1987; 40 nests 1990; 35 nests 1992 |
| Great Blue Heron | Honeymoon Lake | S13-36-26-W4 | inactive/small | 1998 Aerial Survey; Brechtel (1981); Vermeer 1969b); BSOD (1998) 373-377; 5 miles SW of Pine Lake (town); 5 nests 1967; active 1976; 28 nests 1978; 10 nests 1980; 6 nests 1982; 2 nests 1987; 8 nests found in winter 1996; on island at first then moved to shore and 5.5 miles north to an island in Schroeder Lake |
| California Gull | Horse Lakes-NW Buffalo Bay | 2-76-15-W5 | inactive | 1998 Aerial Survey; Ealey (1986); X176; 4 mi NW of Grouard; active 1979 |
| Ring-billed Gull | Horse Lakes-NW Buffalo Bay | 2-76-15-W5 | inactive | 1998 Aerial Survey; Ealey (1986); X176; 4 mi NW of Grouard; active 1979 |
| Ring-billed Gull | Horse Lakes-S Buffalo Bay | 24-75-15-W5 | inactive | 1998 Aerial Survey; Ealey (1986); X177; 2 mi W of Grouard; active 1979 |
| California Gull | Horse Lakes-S Buffalo Bay | 24-75-15-W5 | inactive | 1998 Aerial Survey; Ealey (1986); X177; 2 mi W of Grouard; active 1979 |
| Ring-billed Gull | Horsefly Lake | 12-9-16-W4 | inactive | 1998 Aerial Survey; Map 82 H; Ealey (1986); X179; 6 mi SE of Taber; active 1967 |
| California Gull | Horsefly Lake | 12-9-16-W4 | inactive | 1998 Aerial Survey; Map 82 H; Ealey (1986); X179; 6 mi SE of Taber; active 1967; erroneous location (9-15-16-W4) in BSOD (1998) |
| Great Blue Heron | Island Lake-near Smoky L | E35-61-17-W4 | inactive | 1998 Aerial Survey; Map 83I/8; Brechtel (1981); BSOD (1998); XH 58; 15 mi N of Smoky L; 1 nest 1972; 18 nests 1978 and 1979; 15 nests 1984; 18 nests 1988; 9 nests 1990; 0 nests 1992; surveyed 1995 |
| Great Blue Heron | Islet Lake | 1 or NE2-52-20-W4 | inactive/small | 1998 Aerial Survey; Map 83H/7; 4 mi S of Elk Island NP; Vermeer (1969b); St. Paul NRS (1998); Brechtel (1981); XH62; 8 nests 1967 (Vermeer 1969b), erroneously listed as 78 in BSOD (1998); 25 nests 1976; 12 nests 1977; 16nests 1978; 1 nest 1979 and 1980; 0 nests 1986, 1987 and 1990 |
| Great Blue Heron | Jamieson Lake | NE35-43-7-W4 | not surveyed in 1998 | St. Paul NRS (1998); Vermeer (1969b); Brechtel (1981); on Wainwright base, no access -- Not Surveyed in 1998 Aerial Survey; 15 nests 1967; occupied 1978 and 1980 |
| California Gull | Johnson Reservoir | 12-16-14-W4 | dry | 1998 Aerial Survey; Map 72L/5; Ealey (1986); X181; 8 mi N of Rolling Hills; active 1967 |
| Ring-billed Gull | Johnson Reservoir | 12-16-14-W4 | dry | 1998 Aerial Survey; Map 72L/5; Ealey (1986); X181; 8 mi N of Rolling Hills; active 1967 |
| California Gull | Keho Lake | x-11-23-W4 | inactive (flooded) | 1998 Aerial Survey; BSOD (1998); Steve Brechtel, Edmonton NRS (1998); Weseloh (1978); X183; 3 mi SE of Barons; 1000-3000 nests 1968; 1459 nests in 4 colonies 1978; 4 colonies 1979; islands on west side |
| Double-crested Cormorant | Keho Lake | SW36-11-23-W4 | inactive (flooded) | 1998 Aerial Survey; Steve Brechtel, Edmonton NRS (1998); Brechtel (1981); X183; 3 mi SE of Barons; 0 nests 1967, 1976 and 1978; 7 nests 1979 and 1980; active 1990 |
| Ring-billed Gull | Keho Lake | x-11-23-W4 | inactive (flooded) | 1998 Aerial Survey; 4 islands W side; Weseloh (1978); BSOD (1998); X183; 3 mi SE of Barons; 3000+ nests 1968; 4296 nests 1976; 4 colonies 1978 and 1979; 1000 adults 1995 (PNRS 1998) |
| Great Blue Heron | Keith Lake | 15-64-8-W4 | not found | 1998 Aerial Survey; Map 73L/11; 6 mi NE of Truman; St. Paul NRS (1998); XH64; was in NE corner, no sign of adults or nests; surveyed 1994 but no data |
| Great Blue Heron | Killarney Lake | 5-42-1-W4 | extinct; lake dry | 1998 Aerial Survey; Map 73D/9; St. Paul NRS (1998); XH34; 5 nests 1974 (? near Chauvin) and 5 nests 1980; 0 nests 1990 |
| California Gull | Kleskun Lake | x-73-4-W6 | inactive; too wet | 1998 Aerial Survey; Map 83 M; Ealey (1986); X186; 11 mi E of Sexsmith; 50 pairs 1979 |

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| Ring-billed Gull | Lac Sante | 8-56-11-W4 | inactive | 1998 Aerial Survey; Map 73E/13; St. Paul NRS (1998); X235; 8 mi NE of Two Hills; 150 nests 1993 |
| Ring-billed Gull | Lake Athabasca | 12-115-4-W4 | not surveyed | Ealey (1986); Not Surveyed in 1998 Aerial Survey; Map 74L/15; island near Burntwood Is.; X193; 100-500 nests 1968 |
| California Gull | Lake Athabasca | 29-115-3-W4 | not surveyed | St. Paul NRS (1998); Ealey (1986); Not Surveyed in 1998 Aerial Survey; Map 74L/16; X194; 250 nests in 1977; colony in 1987; 150 nests in 1990 and 1991 |
| Caspian Tern | Lake Athabasca | 29-115-3-W4 | not surveyed | St. Paul NRS (1998); Hohn (1972); Ealey (1986); Not Surveyed in 1998 Aerial Survey; X194; Egg Island near Burntwood Island; 20 pairs 1971; 47 nests 1977; 84 nests 1987; 101 nests 1988; 75 nests 1989; 60 nests 1990; 85 nests 1991 |
| Great Blue Heron | Leming Lake | NW2-65-4-W4 | inactive/small | St. Paul NRS (1998); Brechtel (1981); Not surveyed in 1998 Aerial Survey; Map 73L/9; XH70; 14 mi NW of Cold Lake (town); 2 nests 1978; 25 nests 1979; 4 nests 1982; 0 nests 1990; surveyed in 1995 but no data |
| California Gull | Lesser Slave Lake-Swan Pt | 22-74-9-W5 | inactive | 1998 Aerial Survey; Map 83 O; Swan Pt; 9 mi NE of Kinuso, Ealey (1986); X197; active 1979 |
| Ring-billed Gull | Lesser Slave Lake-Swan Pt | 22-74-9-W5 | inactive | 1998 Aerial Survey; Map 83 O; Swan Pt; 9 mi NE of Kinuso, Ealey (1986); X197; active 1979 |
| California Gull | Lesser Slave Lake-West | 17-75-13-W5 | inactive | 1998 Aerial Survey; Map 83 O; opposite Joussard; Ealey (1986); X196; west end; active 1979 |
| Ring-billed Gull | Lesser Slave Lake-West | 17-75-13-W5 | inactive | 1998 Aerial Survey; Map 83 O; opposite Joussard; Ealey (1986); X196; west end; active 1979 |
| California Gull | Lesser Slave Lake-Joussard | 9-74-13-W5 | inactive | 1998 Aerial Survey; Map 83 O; near Joussard; Ealey (1986); X198; Joussard; active 1978 |
| Ring-billed Gull | Lesser Slave Lake-Joussard | 9-74-13-W5 | inactive | 1998 Aerial Survey; Map 83 O; near Joussard; Ealey (1986); X198; Joussard; active 1978 |
| Great Blue Heron | Lesser Slave Lake-Grouard | x-75-14-W5 | not found; need exact location | 1998 Aerial Survey; Map 83N/9; NW end; Grouard area; Ealey (1986); XH71; 20 nests (no date) |
| Ring-billed Gull | Lesser Slave Lake-East | 20-73-5-W5 | inactive | 1998 Aerial Survey; Map 83 O; off E end of Lake; Ealey (1986); X199; 4 mi N of Slave Lake; 50 Forster's Terns; ; active 1979 |
| Great Blue Heron | Little Bow River | 19-16-26-W4 | extinct | 1998 Aerial Survey; Map 82 I; 12 mi E of Nanton; BSOD (1998); Brechtel (1981); XH72; deserted farmyard; 4 nests 1979; 14 nests 1982 |
| Great Blue Heron | Little Red Deer River | E9-33-3-W5 | extinct | 1998 Aerial Survey; Brechtel (1981); BSOD (1998) 378-382; 3 miles NE of Harmatton; housing development; 18 nests 1972; 45 nests 1973; 50 nests 1976; 13 nests 1978; 12 nests 1987 |
| Great Blue Heron | Lloyd Creek | 28-44-2-W5 | inactive/small | Ealey (1986); Not surveyed in 1998 Aerial Survey; Map 83B/16; XH73; 5 mi NE of Bluffton; 2 nests 1985 |
| Great Blue Heron | Long Lake | 1-63-19-W4 | inactive | 1998 Aerial Survey; Map 83I/7; Long Lake PP; St. Paul NRS (1998); XH74; surveyed 1989 and 1995 (no data); 0 nests 1990 |
| Great Blue Heron | Lougheed Lake area | NW33-44-14-W4 | inactive; lake dry | 1998 Aerial Survey; BSOD (1998) 423-424; 6 miles NW of Killam; 12 nests 1978; 7 nests 1982 |
| Great Blue Heron | Lower Mann Lake | 1 & 12 or 13 & 14-60-11-W4 | inactive; old nests found | 1998 Aerial Survey; Vermeer (1969b); St. Paul NRS (1998); XH 75; 4 mi NE of Ashmont; 13 nests 1967; 1 nest 1972; 0 nests 1978, 1980 and 1990 |
| Great Blue Heron | Lyndon Creek | NE11-13-30-W4 | small or inactive | 1998 Aerial Survey; no date, no #; Bruns (1998); XH76; 18 mi NW of Claresholm; ?historical colony (no data) |
| Gulls | Many Island Lake | 13-1-W4 | extinct | 1998 Aerial Survey; historical nesting of gulls, said to be Ring-billed (Munro 1929) |
| Great Blue Heron | Marguerite Lake | 12-65-6-W4 | extinct | 1998 Aerial Survey; Map 73L/10; St. Paul NRS (1998); XH 79; 12 mi N of La Corey; 3 nests 1981; 2 nests 1982; 0 nests 1990 |
| Great Blue Heron | Marie Lake | E16-65-3-W4 | inactive/small | Not surveyed in 1998 Aerial Survey; Map 73L/9; St. Paul NRS (1998); Brechtel (1981); XH78; 14 mi NW of Cold Lake (town); 8 nests 1980 |

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| Great Blue Heron | Matchayaw Lake | SE20-55-1-W5 | inactive/small | St. Paul NRS (1998); Brechtel (1981); Wollis (1999); Not surveyed in 1998 Aerial Survey; Map 83G/16; XH 80; 5 mi NE of Onoway; 14 nests 1967; 11 nests 1976; 14 nests 1977; 13 nests 1978 and 1979; 14 nests 1980; 6 nests 1983; 13 nests 1985; 10 nests 1988; 6 nests 1993; active 1996 |
| Ring-billed Gull | McGregor Lake | 23-18-22-W4 | inactive | 1998 Aerial Survey; Map 82 I; N end; Ealey (1986); X208; 3 mi SW of Milo; 30 adults 1985 |
| Great Blue Heron | Meyer (D) Lake | 23-69-24-W4 | inactive | 1998 Aerial Survey; Map 83I/13; XH82; 2 mi NE of Grosmont; inaccurate location?; Vermeer (1969b); 6 nests in 1979 (Westworth & Associates 1990); 17 nests 1967; 6 nests 1978; 0 nests 1980 and 1990; originally moved here from Island Lake |
| Double-crested Cormorant | Ministik Lake | | extinct | 1998 Aerial Survey; historical nesting (no data) reported by Vermeer (1969a) as having 12 nests in 1929 |
| Great Blue Heron | Ministik Lake | | extinct | 1998 Aerial Survey; historical nesting (no data) reported by Munro (1929) in 1924 as having 70 nests |
| Great Blue Heron | Moose Lake PP | 34-61-7-W4 | inactive/small | 1998 Aerial Survey; Map 73 L; no date, no #; Ealey (1986); XH84; historical nesting (no data) |
| American White Pelican | Mountain Rapids (Slave River) | E25-126-11 + W30-126-10-W4 | not surveyed | St. Paul NRS (1998); Vermeer (1969a); Steve Brechtel, NRS Edmonton (1998); Not Surveyed in 1998 Aerial Survey; Map 74M/13; X212; active 1789; 100 pairs, early 1900s; 50 pairs 1967; 27 nests 1974; 25 nests 1975; 32 nests 1976; 36 nests 1977-1978; 42 nests 1979; 44 nests 1980; 59 nests 1981; 92 nests 1982; 85 nests 1983; 114 nests 1984; 156 nests 1985; 140 nests 1986; 128 nests 1987; 207 nest 1988; 195 nests 1989; 195 nests 1990; 205 nests 1991; 423 nests 1992; surveyed (no data) 1994; 325 nests 1995 |
| Great Blue Heron | Mud Lake | 36-59-8-W5 | inactive/small | Ealey (1986); 1998 Aerial Survey; Map 83J/3; XH85; 13 mi W of Thunder L PP; 3 nests 1984 |
| Great Blue Heron | Muriel Lake | 36-59-5-W4 | inactive/small | 1998 Aerial Survey; Map 73 L; no date, no #; Ealey (1986); XH86; 10 mi SE of Bonnyville; historical nesting (no data) |
| Great Blue Heron | Murray Lake | 26-9-8-W4 | inactive/small | 1998 Aerial Survey; Vermeer (1969b); BSOD (1998); Brechtel (1981); XH87; 19 mi SE of Bow Island; 30 nests 1967; 50 nests 1980; active 1982 |
| California Gull | Namaka Lake | 12-23-24-W4 | inactive | 1998 Aerial Survey; 8 mi SE of Strathmore; Poston et al. (1990); X217; mainland; active 1964 (PNRS 1998) on mainland |
| Ring-billed Gull | Namaka Lake | 12-23-24-W4 | inactive | 1998 Aerial Survey; 8 mi SE of Strathmore; Poston et al. (1990), no data; X217; historical colony |
| Great Blue Heron | New Norway (area) | 12-45-22-W4 | extinct | 1998 Aerial Survey; BSOD (1998) 5689--creek, 5 miles W of New Norway; habitat mostly gone; active 1973 (no data) |
| Great Blue Heron | North Edwand Creek | 16-61-15-W4 | inactive | 1998 Aerial Survey; Map 83I/8; St. Paul NRS (1998); XH91; 10 mi N of Bellis; 5 nests 1987; 0 nests 1990 |
| Great Blue Heron | North Saskatchewan River | N14-57-14-W4 | inactive/nests found in disrepair | 1998 Aerial Survey; Map 73E/13; BSOD (1998); St. Paul NRS (1998); Brechtel (1981); XH94; 4 mi SW of Hamlin; 1 nest 1977 |
| Great Blue Heron | Oldman River-Picture Butte | 1-11-19-W4 | inactive | 1998 Aerial Survey; Map 82H/16; XH95; Vermeer (1969b); Brechtel (1981); BSOD (1998); 14 mi E of Picture Butte; 14-19 nests 1967; 17 nests 1981; 15 nests 1982; trees were cut |
| Great Blue Heron | Oldman River-Lethbridge | 4 or NE9-8-22-W4 | inactive/small | 1998 Aerial Survey; Map 82H/10; near St Mary River; XH96; SW corner of Lethbridge; Brechtel (1981); Ealey (1986); active 1980; 56 nests 1981; 10 nests 1982 |
| Great Blue Heron | Oldman River-Ft. Macleod | 29-8-22-W4 | not found | 1998 Aerial Survey; not in original data base; Lethbridge NRS (1998) via Jim Clark; active 1980 |
| Great Blue Heron | Oster Lake | NE9-54-20-W4 | extinct | 1998 Aerial Survey; pond; St. Paul NRS (1998); XH 45; Elk Island National Park; 9 nests 1971; 13 nests 1977; 0 nests 1990, 1992 and 1993; 3 nests 1991 |

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| Great Blue Heron | Oyen | 9-28-3-W4 | inactive/small | 1998 Aerial Survey; Map 72 M; no data on sheet; BSOD (1998); XH99; 8 mi NE of Oyen; shelterbelt?; historical, no data |
| Great Blue Heron | Parting Lake | NW22-58-6-W5 | extinct | 1998 Aerial Survey; Map 83J/2; St. Paul NRS (1998); Wollis (1999); XH100; Paddle River, 3 mi SE of Roselea; 15 nests 1980; 20 nests 1983; 25 nests 1985; 12 nests 1986; 19 nests 1988; 18 nests 1991; 20 nests 1993; sometime after 1993, beaver cut trees and colony became extinct |
| American White Pelican | Pastecho Lake | 16-80-3-W5 | inactive | Steve Brechtel, NRS Edmonton (1998); Not Surveyed in 1998 Aerial Survey; Fish and Wildlife Ground Survey; X223; 21 mi W of Wabasca; 5 nests 1990 |
| Great Blue Heron | Paul Lake | 4-54-20-W4 | inactive/small | St. Paul NRS (1998); Not surveyed in 1998 Aerial Survey; EINP Ground Survey 1998; Map 83H/10; XH101; 14 nests 1990 and 1991; 19 nests 1992; 22 nests 1993 |
| Great Blue Heron | Pembina River | SE16-60-1-W5 | inactive/small | St. Paul NRS (1998); Wollis (1999); Not surveyed in 1998 Aerial Survey; 11 mi W of Westlock; XH103; active 1980; 19 nests 1982; 12 nests 1983; 11 nests 1985; part removed by bulldozer in 1989; 4 nests 1991; 3-12 nests 1993; duplicated in BSOD as Rossington |
| Great Blue Heron | Pembina River - Dapp | | inactive/small | Wollis (1999); Not surveyed in 1998 Aerial Survey; first discovered 1994, 12 nests 1995 |
| Great Blue Heron | Perryvale B | 27-63-23-W4 | inactive | 1998 Aerial Survey; Map 83I/6; St. Paul NRS (1998); XH105; at Perryvale; 3 nests 1988; 4 nests 1990; 10 nests 1993 |
| Great Blue Heron | Pinehurst Lake | 24-65-10-W4 | inactive/small | Not surveyed in 1998 Aerial Survey; Map 73L/11; 11 mi NE of Helina; St. Paul NRS (1998); XH106; 0 nests 1990; 6 nests 1993 (Wallis et al. 1994) |
| Double-crested Cormorant | Plain Lake | 28-53-12-W4 | inactive | 1998 Aerial Survey; Map 73E/12; St. Paul NRS (1998); X227; 7 mi S of Two Hills; 30 nests 1982; 78 nests 1983; 33 nests 1987; 18 nests 1988; 16 nests 1989; 14 nests 1990; 0 nests 1992 |
| American White Pelican | Primrose Lake | | not surveyed 1998 | from Poston et al. (1990); may be in Saskatchewan; no other data |
| California Gull | Primrose Lake | | not surveyed 1998 | from Poston et al. (1990); may be in Saskatchewan; no other data |
| Double-crested Cormorant | Primrose Lake | | not surveyed 1998 | from Poston et al. (1990); may be in Saskatchewan; no other data |
| Great Blue Heron | Primrose Lake | | not surveyed 1998 | from Poston et al. (1990); may be in Saskatchewan; no other data |
| Ring-billed Gull | Primrose Lake | | not surveyed 1998 | from Poston et al. (1990); may be in Saskatchewan; no other data |
| Great Blue Heron | Red Deer River -Blindman R | 18-39-26-W4 | inactive/small | Ealey (1986); Not surveyed in 1998 Aerial Survey; Map 83A/5; at Blindman River; XH111; 3 mi NW of Red Deer; 4 nests 1985 |
| Great Blue Heron | Red Deer River -Dinosaur | Cent28-21-12-W4 | not found | 1998 Aerial Survey; BSOD (1998); Vermeer (1969b); 393-398; Brechtel (1981); NW side of Dinosaur PP; 32 nests 1967; 41 nests 1971; active 1975 & 1977; 10 nests 1978 and 1979; 4 nests 1980; 25 nests 1982; 34 nests 1987 |
| California Gull | Rock Island Lake-Frog L area | 20-56-1-W4 | inactive; dry | 1998 Aerial Survey; Map 73E/16; St. Paul NRS (1998); X231; 12 mi E of Frog L town; surveyed (no data) in 1978; 115 nests in 1990 |
| Great Blue Heron | Rocky Mountain House (area) | N25-39-8-W5 | small/inactive | 1998 Aerial Survey; Brechtel (1981); XH112; 9 mi W of Rocky Mtn House; 6 nests 1978 |
| Great Blue Heron | Romeo Lake | 31-58-6-W5 | extinct; new 1999 | 1998 Aerial Survey; BSOD (1998); XH113; 6 mi SW of Roselea; canoe launch area; 1nest 1976; extinct post 1976 but new activity in 1999, at least 10 nests (Wollis 1999) |

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| Great Blue Heron | Rosebud River | 27-30-1-W5 | extinct | 1998 Aerial Survey; BSOD (1998) 399--near river 3 miles NE of Carstairs; 15 nests 1979 |
| Great Blue Heron | Ross Creek | 3-12-3-W4 | extinct | 1998 Aerial Survey; also checked 3 miles upstream; 3 mi W of *Irvine; BSOD (1998)*; Brechtel (1981); XH114; 0 nests 1967; 25 nests 1972; 45 nests 1976; 70-80 nests 1980; 10 nests 1982 |
| Double-crested Cormorant | Seven Persons Reservoir | 29-10-7-W4 | not surveyed | Lethbridge NRS (1998); Not Surveyed in 1998 Aerial Survey; active in 1989 |
| American White Pelican | Shanks Lake | 27-1-21-W4 | inactive | 1998 Aerial Survey; 50 nests reported by Vermeer circa 1960s |
| California Gull | Shanks Lake | 27-1-21-W4 | inactive or individual nesters | 1998 Aerial Survey; Map 82 H; Ealey (1986); Yuill et al. (1975); Steve Brechtel, NRS Edmonton (1998); X238; 4 mi NE of Del Bonita; 100-500 nests 1968; part of 43 nests 1975; 0 nests 1976; have nested on peninsula in NW corner as well as on low island to the S of the peninsula |
| Ring-billed Gull | Shanks Lake | 27-1-21-W4 | inactive or individual nesters | 1998 Aerial Survey; Map 82 H; Ealey (1986); Yuill et al. (1975); X238; 4 mi NE of Del Bonita; part of 43 nests 1975 |
| Great Blue Heron | Sheep River-Black Diamond A | 27-20-2-W5 | extinct; 1 Bald Eagle nest nearby | 1998 Aerial Survey; BSOD (1998) 406-410, 412-416; 2 miles NE of Black Diamond; 23 nests 1970; 18 nests 1972; 12 nests 1973; 9 nests 1978; 13 nests 1982 |
| Great Blue Heron | Sheep River-Black Diamond B | 35-20-2-W5 | nests found; extinct | 1998 Aerial Survey; PNRS (1998); BSOD (1998) 411; 4 miles NE of Black Diamond; 27 nests 1970; 12 nests 1994 |
| Great Blue Heron | Sheep River-Turner Valley | 6-20-2-W5 | extinct | 1998 Aerial Survey; BSOD (1998) 405; 1 mile SW of Turner Valley; 25 nests 1969; extinct 1978 |
| California Gull | Sinking Lake | 3-60-6-W4 | inactive; low levels | 1998 Aerial Survey; Map 73L/2; St. Paul NRS (1998); X239; 1000 nests 1979; part of 50 nests 1981 |
| Ring-billed Gull | Sinking Lake | 3-60-6-W4 | inactive; low levels | 1998 Aerial Survey; Map 73L/2; St. Paul NRS (1998); Ealey (1986); X239; part of 50 nests 1981 |
| Great Blue Heron | Sounding Creek | NW36-34-13-W4 | extinct | 1998 Aerial Survey; BSOD (1998) 432; 11 mi SW of Coronation; no suitable habitat; 7 nests 1988 |
| Great Blue Heron | South Tea Lake | NW9-67-7-W5 | inactive/small | Brechtel (1981); Not Surveyed in 1998 Aerial Survey; XH119; 14 mi NE of Swan Hills; 7 nests 1978; 6 nests 1979 and 1980 |
| Great Blue Heron | Spruce Island Lake | NE1-64-26-W4 | small/inactive; not surveyed | St. Paul NRS (1998); Brechtel (1981); Wollis (1999); Not Surveyed in 1998 Aerial Survey; Map 83I/12; XH120; 8 mi S of Cross L PP; 4 nests 1977 and 1978; 6 nests 1979 and 1980; 20 nests 1990; active 1995 |
| Great Blue Heron | St. Mary River | NE or NW5-3-24-W4 | extinct (part of main channel) | 1998 Aerial Survey; Map 82H/3; near Woolford PP; BSOD (1998) ; XH121; 50 nests 1982 |
| California Gull | Stobart Lake | 30-22-23-W4 | inactive | 1998 Aerial Survey; Ealey (1986); X243; active colony 1983 |
| California Gull | Suds Lake | 27-5-18-W4 | no nests; dry | 1998 Aerial Survey; island N side; Steve Brechtel, NRS Edmonton (1998); X244; New Dayton; a few nests 1979 |
| Ring-billed Gull | Suds Lake | 27-5-18-W4 | no nests; dry | 1998 Aerial Survey; island N side; Steve Brechtel, NRS Edmonton (1998); X244; New Dayton; a few nests 1979 |
| Great Blue Heron | Taber P.P. | 18-10-16-W4 | inactive/small | 1998 Aerial Survey; Map 82H/16; along Oldman River; Ealey (1986); XH122; active small colony 1982 (no data) |
| Double-crested Cormorant | Thunder Lake | NW30-59-5-W5 | extinct | Wollis (1999); Not Surveyed in 1998 Aerial Survey; Map 83J/2; XH123; Thunder L PP; large numbers in 1996; extinct after winter fish kill of 1996/97 |
| Great Blue Heron | Thunder Lake | NW30-59-5-W5 | extinct | St. Paul NRS (1998); Vermeer (1969b); Brechtel (1981); Wollis (1999); Not Surveyed in 1998 Aerial Survey; Map 83J/2; XH123; Thunder L PP; 14 nests 1967; 0 nests 1969; 14 nests 1975; 12 nests 1976; 15 nests 1977; 22 nests 1978; 33 nests 1979; 30 nests 1980; 18 nests 1983; 0 nests 1984, 1986 and 1990; 18 nests 1993, 0 in 1996 |

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| California Gull | Timko Lake | 33-17-13-W4 | inactive; island now a peninsula | 1998 Aerial Survey; Map 72 L; Ealey (1986); X248; 4 mi NW of Tilley; active 1967 |
| Ring-billed Gull | Timko Lake | 33-17-13-W4 | inactive; island now a peninsula | 1998 Aerial Survey; Map 72 L; Ealey (1986); X248; 4 mi NW of Tilley; active 1967 |
| Great Blue Heron | Trout Creek | NE34-11-28-W4 | small/inactive | 1998 Aerial Survey; Vermeer (1969b); Brechtel (1981); BSOD (1998); XH124; 7 mi SW of Claresholm; active 1963; 12 nests 1967; 0 nests 1982 |
| Great Blue Heron | Unnamed Lake | NW33-44-10-W4 | inactive | 1998 Aerial Survey; Map 73D/14, SW of Peninsula Lake; Brechtel (1981); Ealey (1986); XH126; 13 mi NE of Sedgewick; 12 nests 1979 |
| Great Blue Heron | Unnamed Lake | 12-62-10-W5 | inactive/small | 1998 Aerial Survey; Map 83J/6; no date, no #; Ealey (1986); XH128; 13 miles NE of Carson-Pegasus PP.; no data |
| Great Blue Heron | Unnamed Lake | 1-90-15-W5 | not surveyed | Ealey (1986); Not Surveyed in 1998 Aerial Survey; Map 84 C; XH125; 18 mi N of Marten R; 6 nests 1984 |
| American White Pelican | Utikuma Lake - East Island | 28+33-79-9-W5 | inactive | Brechtel (1981); Not Surveyed in 1998 Aerial Survey; Fish & Wildlife Ground Survey 1998; Map 83 O; X250; N end of E Island; 0 nests 1967; inactive 1975; 39 nests 1978; 0 nests 1979; 129 nests 1980 |
| California Gull | Utikuma Lake - East Island | 28+33-79-9-W5 | inactive | Brechtel (1981); Not Surveyed in 1998 Aerial Survey; Fish & Wildlife Ground Survey 1998; Map 83 O; X250; N end of E Island; 500-1000 nests in 1967 |
| Double-crested Cormorant | Utikuma Lake - East Island | 28+33-79-9-W5 | inactive | Brechtel (1981); Not Surveyed in 1998 Aerial Survey; Fish & Wildlife Ground Survey 1998; Map 83 O; X250; N end of E Island; 0 nests 1967, 1970, 1978 and 1979; 55 nests 1980 |
| Great Blue Heron | Vermilion River | 13-52-10-W4 | not found | 1998 Aerial Survey; Map 73E/6; St. Paul NRS (1998); XH129; 12 mi N of Minburne; 27nests 1988; 15 nests 1991 |
| American White Pelican | Wadlin Lake | SW1-101-11-W5 | not surveyed | Brechtel (1981); Vermeer (1969a); Not Surveyed in 1998 Aerial Survey; Map 84 G; X253; 51 mi SE of Ft. Vermilion; 15 nests 1968; 18 nests 1974; active 1977; 19 nests 1978 |
| California Gull | Wadlin Lake | SW1-101-11-W5 | not surveyed | Ealey (1986); Not Surveyed in 1998 Aerial Survey; Map 84 G; X253; 51 mi SE of Ft. Vermilion; active 1985 |
| Ring-billed Gull | Wadlin Lake | SW1-101-11-W5 | not surveyed | Ealey (1986); Not Surveyed in 1998 Aerial Survey; Map 84 G; X253; 51 mi SE of Ft. Vermilion; active 1985 |
| Great Blue Heron | Wakomao Lake | NE5-60-24-W4 | not found | Brechtel (1981); St. Paul NRS (1998); 1998 Aerial Survey; Map 83I/4; 3 mi NE of Clyde; XH131; 39 nests 1978; 44 nests 1979; 25 nests 1980; 35 nests 1983; 6 nests 1989; 8 nests 1991; 35 nests 1993 |
| Great Blue Heron | Whelp Brook | 22-42-26-W4 | not found | 1998 Aerial Survey; BSOD (1998) 428; 4 miles SW of Ponoka; 14 nests 1987 |
| Great Blue Heron | Whitefish Lake | 18-62-13-W4 | extinct; not surveyed | St. Paul NRS (1998); Not Surveyed in 1998 Aerial Survey; Map 73L/5; XH132; 4 mi W of McRae; 2 nests 1972; 0 nests 1990 |
| Great Blue Heron | Willow Creek | NE or SW28-13-28-W4 | extinct | 1998 Aerial Survey; Brechtel (1981); BSOD (1998); XH133; Willow Creek PP; active 1973-1978; 30 nests 1979; 6 nests 1982; new one to SE not found |
| California Gull | Winefred Lake | 34-74-4-W4 | not surveyed | St. Paul NRS (1998); Ealey (1986); Not Surveyed in 1998 Aerial Survey; Map 73M/7; X255; off N end of Cold Lake base; 500-1000 nests 1967; surveyed (no data) 1982 |
| Double-crested Cormorant | Winefred Lake | 34-75-4-W4 | not surveyed | St. Paul NRS (1998); Not Surveyed in 1998 Aerial Survey; Map 73M/10; X256=XH134; off north end of Cold Lake base; 10 nests 1981; 8 nests 1982; surveyed 1997 (no data) |
| Great Blue Heron | Winefred Lake | 34-75-4-W4 | not surveyed | St. Paul NRS (1998); Not Surveyed in 1998 Aerial Survey; Map 73M/10; XH134; off north end of Cold Lake base; 8 nests 1980; 2 nests 1982; 12 nests 1985 and 1986; 9 nests 1991 |
| Ring-billed Gull | Winefred Lake | 34-74-4-W4 | not surveyed | St. Paul NRS (1998); Not Surveyed in 1998 Aerial Survey; Map 73M/7; X255; off N end of Cold Lake base; 100-500 nests 1967; 50 nests 1982 |
| Great Blue Heron | Wolf Creek | NW4-27-44-W4 | inactive/small | Not Surveyed in 1998 Aerial Survey; Map 83 A; not mapped; location unclear, maybe =H429; 2 nests 1987 |

| | | | | |
|---|---|---|---|---|
| Great Blue Heron | Woods Lake | unknown location | | Not Surveyed in 1998 Aerial Survey; not mapped; from Poston |

## 3.3 SURVEYED WATERBODIES WITH NO HISTORICAL OR 1998 COLONIES

| Location | Legal | Aerial Survey Date | Notes |
|---|---|---|---|
| Bantry A Reservoir | 16-12-W4 | May 29-31 1998 | attempted nesting on one of the Bantry Reservoirs by American White Pelican in 1977 |
| Bantry B Reservoir | 16-12-W4 | May 29-31 1998 | |
| Bartman Reservoir | 25-11-W4 | May 29-31 1998 | |
| Bens-Watt Lakes | 54-13-W4 | May 29-31 1998 | |
| Bittern Lake | 47-21-W4 | May 29-31 1998 | |
| Brosten Reservoir | 28-8-W4 | May 29-31 1998 | |
| Cessford Reservoir | 24-11-W4 | May 29-31 1998 | |
| Chappice Lake | 14-3-W4 | May 29-31 1998 | had water |
| Charlotte Lake | 61-1-W4 | May 29-31 1998 | dry |
| Coaldale | 10-20-W4 | May 29-31 1998 | |
| Connemara/Silver Lake | 16-28-W4 | May 29-31 1998 | |
| Contracosta Lake | 31-12-W4 | May 29-31 1998 | loafing birds only |
| Crestomere Lake | 43-27-W4 | May 29-31 1998 | |
| Dolcy Lake | 42-4-W4 | May 29-31 1998 | dry |
| Forty Mile Coulee | 1-11-W4 | May 29-31 1998 | |
| Grassy Island Lake | 33-3-W4 | May 29-31 1998 | |
| Handhills Lake | 29-16-W4 | May 29-31 1998 | |
| Jamieson Lake (near Brooks) | 19-14-W4 | May 29-31 1998 | |
| Jensen Reservoir | 4-22-W4 | May 29-31 1998 | dry |
| Jessie Lake | 61-5-W4 | May 29-31 1998 | |
| Johnson Lake (near Brooks) | 19-14-W4 | May 29-31 1998 | |
| Johnson Reservoir (lake NW of) | NE22-16-14-W4 | May 29-31 1998 | gulls appeared to be nesting from aerial survey but 1998/06/21 ground inspection revealed no nests |
| Kenilworth Lake | 50-4-W4 | May 29-31 1998 | dry |
| Kininvie | 16-11-W4 | May 29-31 1998 | |
| Little Miquelon Lake | 49-20-W4 | May 29-31 1998 | |
| Marion-Shooting Lakes | 37-17-W4 | May 29-31 1998 | |
| Mattoyekieu Lake | 25-18-W4 | May 29-31 1998 | |
| Mud Lake (Fort Macleod) | 9-27-W4 | May 29-31 1998 | |
| Oliver Lake | 50-21-W4 | May 29-31 1998 | |
| Onetree Reservoir | 19-14-W4 | May 29-31 1998 | |
| Prouty | 16-15-18-W4 | May 29-31 1998 | |
| Red Deer Lake | 43-22-W4 | May 29-31 1998 | |
| Reed Lake | 2-21-W4 | May 29-31 1998 | |
| Ribstone Lake | 44-5-W4 | May 29-31 1998 | dry |
| Sam Lake | 14-2-W4 | May 29-31 1998 | had water |
| Samson Lake | 43-23-W4 | May 29-31 1998 | |
| Sherburne Lake | 9-14-W4 | May 29-31 1998 | |
| Sieu Lake | 25-18-W4 | May 29-31 1998 | |
| Sounding Creek Reservoir | 30-5-W4 | May 29-31 1998 | |
| Sounding Lake | 37-4-W4 | May 29-31 1998 | dry |
| Sullivan Lake | 35-14-W4 | May 29-31 1998 | lake levels conducive to some island formation |
| Sunken Lake | 39-5-W4 | May 29-31 1998 | dry |
| Vermilion Lakes | 54-13-W4 | May 29-31 1998 | |
| Wavy Lake | 45-15-W4 | May 29-31 1998 | dry, mostly marshy |
| Yellow Lake | 9-12-W4 | May 29-31 1998 | |

## 4.0 ANALYSIS AND DISCUSSION

This is the first relatively comprehensive province-wide survey of American White Pelicans, Great Blue Herons, Double-crested Cormorants, Ring-billed Gulls and California Gulls that has been done in Alberta in a single year. Previous surveys have focused on selected regions or selected species or have been conducted over multiple years.

The following species' accounts provide a general overview of nesting locations, typical nesting, reported threats, nesting populations by time period (pre-1970s, 1970s, 1980s/1990s and 1998) and status based on inferred trends. Summaries of the data include trends of significant and minor colonies with estimates of number of nesting pairs from 1998 surveys and from either pre-1970s or pre-1980s. Active nest data are used wherever possible.

As no province wide, single year survey has been done before, the data are not directly comparable and some caution should be exercised in using the trend or status information. Higher populations for some species found in 1998 may indeed indicate an actual increase from previous decades but the magnitude of the increase is, at least in part, a reflection of the better sampling effort.

### 4.1 AMERICAN WHITE PELICAN

All American White Pelican colonies were situated on islands, primarily in larger bodies of water. One is located in the middle of the Slave River Rapids.

Vermeer (1970) noted this species has a low tolerance to disturbances on nesting islands. He reported that at least 10 colonies had disappeared from 1950-1978 in Canada because of direct human-related causes.

**ST=STATUS + increasing - decreasing = stable m minor ? unknown**

| American White Pelican | | # active nests (range of values); ns=no survey data | | | | |
|---|---|---|---|---|---|---|
| **Location** | **Legal** | **pre-1970s** | **1970s** | **1980s/1990s** | **1998** | **ST** |
| Beaverhill Lake | whole lake | 0-81 | 0-14 | 0-395 | 171 | + |
| Birch Lake | NE8-95-17-W4 | ns | 0-140 | 0-120 | ns | = |
| Buffalo Lake | whole lake | active | 0 | 0 | 282 | + |
| Chip Lake | whole lake | 0 | 0 | 0 | 23 | + |
| Frank Lake | 19?-18-27-W4 | 500 birds | 0 | 0 | 0 | - |
| Gardiner Lake (North) | x-98-16-W4 | ns | 24 | ns | 0 | m |
| Grassy Lake | whole lake | ns | ns | <10-50 | 2 | m |
| Hastings Lake | 18-51-20-W4 | ns | ns | 0-50 | 0 | m |
| Joseph Lake | SE12-50-22-W4 | 0 | 0 | active | 480 | + |
| Lac Ste Anne | W15-54-3-W5 | few | ns | ns | 1 | m |
| Lake Newell 4 - Pelican Island | SW2-17-15-W4 | 0-170 | 24 | 8-106 | 21 | - |
| Little Fish Lake | NW4-28-16-W4 | 0 | 0 | 0 | 2 | m |
| Lower Therien Lake | whole lake | 2 | 0 | 0-3 | 55 | + |
| Miquelon Lake | | 250 | 0 | 0 | 0 | - |
| Mountain Rapids (Slave River) | E25-126-11 + W30-126-10-W4 | active 1789; 50-100 pairs | 27-42 | 44-423 | ns | + |
| Namur Lake | 36-97-17-W4 | 153 | 0-198 | 25-161 | 279 | + |
| Pakowki Lake | whole lake | ns | 0 | 8-28 | 49 | + |
| Pastecho Lake | 16-80-3-W5 | ns | ns | 5 | 0 | m |
| Pelican Lake - N & S Islands | 9-79 and 30-78-21-W4 | 0 | 240 | 150-216 | 2108 yg | + |
| Portage Lake 1 | 10-69-14-W4 | ns | ns | 0 | 3 | m |
| Scope (Hays) Reservoir | whole lake | ns | ns | 837 | 3850 | + |
| Shanks Lake | | 50 | ns | ns | 0 | - |
| St Mary Reservoir | whole lake | 0 | 0 | 0 | 80 | + |
| Utikuma Lake | whole lake | 0 | 9-156 | 129-150 | 126 | = |
| Wadlin Lake | SW1-101-11-W5 | 15 | 18-19 | ns | ns | ? |

**ST=STATUS + increasing - decreasing = stable m minor ? unknown**

AMERICAN WHITE PELICAN SUMMARY:

Of 25 American White Pelican colonies, 11 significant (over 25 nesting pairs) colonies have increased in size while 3 significant colonies (Frank Lake, Miquelon Lake and Shanks Lake) have become inactive and 1 significant colony (Lake Newell) has seen a general, though weak, decreasing trend. Two significant colonies have been reasonably stable. Seven colonies are considered minor, 3 of which were inactive in 1998. The current status of the Wadlin Lake colony is unknown--it was a minor colony in previous surveys.

The overall trend for American White Pelican is increasing. This agrees with the Breeding Bird Survey trend map.

The total number of known nesting pairs in 1998 was over 6400 nests. This compares to a total estimated provincial population of less than 900 nesting pairs prior to 1980. Much of this increase is "real" and cannot be attributed only to increased sampling effort.

### 4.2 CALIFORNIA GULL

Most California colonies were situated on islands in both small and large bodies of water. There are occasional records of colonies on causeways and peninsulas but these have often been subject to heavy predation.

Colonies have disappeared periodically due to periods of drought or increased water levels that have flooded out nesting islands.

**ST=STATUS + increasing - decreasing = stable m minor ? unknown**

| California Gull | | # active nests (range of values); ns=no survey data | | | | |
|---|---|---|---|---|---|---|
| Location | Legal | pre-1970s | 1970s | 1980s/1990s | 1998 | ST |
| Akasu Lake | whole lake | ns | ns | ns | 1282 | + |
| Antoine Lake | 4-67-14-W4 | ns | ns | active | 2000 | + |
| Beaver Lake | 34-65-12-W4 | ns | ns | 100 | part of 500 | + |
| Beaverhill Lake | whole lake | 100-500 | 453 | 30-307 | 131 | = |
| Birch Lake | 9-95-17-W4 | ns | 15-20 | 30 | ns | = |
| Bistcho Lake | 1-123-5-W6 | ns | ns | large colony | ns | + |
| Bruce Lake | E3-26-26-W4 | ns | part of 400 adults | ns | 178 | = |
| Buffalo Lake | whole lake | 7-500 | 952 | 5000 | 740 | = |
| Bushy Head Lake | 35-44-7-W4 | ns | ns | 125-175 | 301 | + |
| Campbell = Tilley A Reservoir | NE6-18-12-W4 | ns | part of 1000 adults | ns | 207 | = |
| Chip Lake | whole lake | 100-500 | 1240 | ns | 560 | = |
| Cowoki Lake | 2-19-13-W4 | active | ns | ns | 0 | - |
| Crawling Valley Reservoir =Barkenhouse Lake | whole lake | ns | active | ns | 196 | = |
| Dowling Lake | NE12-32-15-W4 | 500-1000 | 824 | ns | 0 | - |
| Eagle Lake | ?30-23-24-W4 | 100-500 | 0 | ns | 0 | - |
| Ferguson Lake | 25-72-6-W6 | ns | ns | 500 adults | part of 200 | + |
| Frank Lake | 19?-18-27-W4 | 100-500 | 311 | 815 | 0 | - |
| Frog Lake | whole lake | ns | ns | active | 120 | + |
| God's Lake | 18?-90-2-W5 | ns | ns | 52 | ns | + |
| Grassy Lake | whole lake | ns | ns | ns | 1548 | + |
| Grouard Channel | 20-75-14-W5 | ns | active | ns | 0 | - |
| Horse Lakes-NW Buffalo Bay | 2-76-15-W5 | ns | active | ns | 0 | - |
| Horse Lakes-S Buffalo Bay | 24-75-15-W5 | ns | active | ns | 0 | - |
| Horsefly Lake | 12-9-16-W4 | active | ns | ns | 0 | - |
| Irricana (Salt) Lake | NE11-27-26-W4 | 1000-3000 | 1205 | active | 0 | - |
| Johnson Reservoir | 12-16-14-W4 | active | ns | ns | 0 | - |

ST=STATUS + increasing - decreasing = stable m minor ? unknown

| California Gull | | # active nests (range of values); ns=no survey data | | | | |
|---|---|---|---|---|---|---|
| Location | Legal | pre-1970s | 1970s | 1980s/1990s | 1998 | ST |
| Joseph Lake | SE12-50-22-W4 | 500-1000 | 239 | 218-500 | 1500 | + |
| Keho Lake | x-11-23-W4 | 1000-3000 | 4-1459 | ns | 0 | - |
| Kitsim Reservoir | whole lake | ns | ns | ns | 610 | + |
| Kleskun Lake | x-73-4-W6 | ns | 50 | ns | 0 | - |
| Lac la Biche | whole lake | 500-1000 | ns | 85-2000 | 146 | - |
| Lac Ste Anne | whole lake | ns | ns | 500 | 400 | = |
| Lake Athabasca | 29-115-3-W4 | ns | 250 | 150 | ns | = |
| Lake Newell | whole lake | 500-2580 | 565 | ns | 150 | - |
| Langdon Reservoir | whole lake | ns | ns | active | 3759 | + |
| Lesser Slave Lake - Swan Pt | 22-74-9-W5 | ns | active | ns | 0 | - |
| Lesser Slave Lake-West | 17-75-13-W5 | ns | active | ns | 0 | - |
| Lesser Slave Lake-Joussard | 9-74-13-W5 | ns | active | ns | 0 | - |
| Little Bow Reservoir | whole lake | 29 | 21 | active | 195 | + |
| Little Fish Lake | NW4-28-16-W4 | ns | ns | active | 876 | + |
| Lost Lake | 6-14-17-W4 | ns | ns | 8 | 0 | m |
| Lower Therien Lake 1 | 23-57-10-W4 | 100-500 | 4-176 | 5-3000 | 600 | + |
| Many Island Lake | 13-1-W4 | active | ns | ns | 0 | - |
| Milk River Ridge Reservoir 1 | SW14-5-20-W4 | ns | part of 2000-3000 | active | 5287 | + |
| Milk River Ridge Reservoir 2 | S8-5-19--W4 | ns | part of 200-400 | 80 | 133 | = |
| Miquelon Lake 1 | NE30-49-20-W4 | 87-470 | ns | ns | 246 | = |
| Miquelon Lake 2 | SW30-49-20-W4 | 44-300 | 1848 | active | 1750 | + |
| Muriel Lake | 11-60-5-W4 | ns | ns | 200-400 | 1200 | + |
| Murray Lake | whole lake | 100-500 | 151 | active | 492 | + |
| Namaka Lake | 12-23-24-W4 | active | ns | ns | 0 | - |
| Namur Lake | 36-97-17-W4 | ns | 139-200 | 600-700 pairs | 250 adults | = |
| Pakowki Lake | whole lake | ns | part of 40-80 | active | 730 | + |
| Pelican Lake | 30-78-21-W4 | 100-500 | ns | ns | 0 | - |
| Pigeon Lake | E27-46-28-W4 | ns | active | ns | 174 | = |
| Rattlesnake Lake | whole lake | ns | ns | ns | 571 | + |
| Rock Island Lake (by Calling L) | 21-75-22-W4 | ns | ns | active | part of 202 | + |
| Rock Island Lake-Frog L area | 20-56-1-W4 | ns | ns | 115 | 0 | - |
| Ross Lake | NW30-2-22-W4 | ns | part of 562 | ns | part of <100 | - |
| Scope (Hays) Reservoir | whole lake | ns | active | active | 228 | = |
| Shanks Lake | 27-1-21-W4 | 100-500 | 0-43 | ns | 0 | - |
| Sinking Lake | 3-60-6-W4 | ns | 1000 | 50 | 0 | - |
| St Mary Reservoir 1 | NW19-4-24-W4 | 1000-3000 | 1580 | ns | 307 | - |
| Stirling Lake | 6-7-19-W4 | <100 | 962 | 100 | 130 | = |
| Stobart Lake | 30-22-23-W4 | ns | ns | active | 0 | - |
| Suds Lake | 27-5-18-W4 | ns | active small | ns | 0 | m |
| Taber Lake | whole lake | ns | ns | ns | 71 | + |
| Tilley B Reservoir | 30-18-12-W4 | ns | active | ns | 100 | + |
| Timko Lake | 33-17-13-W4 | active | ns | ns | 0 | m |
| Upper Therien Lake | SE5-58-9-W4 | ns | ns | 300-400 | 258 | = |
| Utikuma Lake | whole lake | 500-1000 | ns | ns | 13 | - |
| Wadlin Lake | SW1-101-11-W5 | ns | ns | active | ns | ? |
| Waterton Reservoir | 14-4-28-W4 | ns | ns | active | 405 | = |
| Winagami Lake | NW26-76-18-W4 | ns | ns | ns | 122 | + |
| Winefred Lake | 34-74-4-W4 | 500-1000 | ns | ns | ns | ? |

ST=STATUS + increasing - decreasing = stable m minor ? unknown

CALIFORNIA GULL SUMMARY:

Of 74 California Gull colonies, 25 significant (more than 25 nesting pairs) colonies have increased while 27 have decreased in size. 17 colonies have remained relatively stable. Three are considered minor colonies and two are of unknown status as there have been no recent surveys. Some of the increasing colonies may represent stable situations--there is no pre-1980 survey data to indicate whether some of these colonies existed at that time.

The overall trend for California Gull is slightly increasing as many of the declining colonies have been relatively small whereas many of the increasing colonies have been relatively large. This is a trend that has been evident throughout North America and agrees with the Breeding Bird Survey trend map.

The total number of known nesting pairs in 1998 was estimated to be over 28700. This compares to a total estimated provincial population of about 12000-15000 nesting pairs prior to 1970. Part of this apparent increase can be attributed to a more comprehensive census conducted in 1998.

### 4.3 CASPIAN TERN

Caspian Terns nest exclusively on islands in Alberta. While these tend to be at larger lakes, they have nested or attempted to nest on smaller man-made reservoirs.

In addition to the nesting sites, individuals have been spotted in widely scattered locations (e.g. Badger Reservoir, Burnstick Lake, Chip Lake, Fort McMurray, Kitsim Reservoir, Lac La Biche, Pakowki Lake, Stirling Lake) in Alberta and they may be expected to attempt nesting at other sites.

**ST=STATUS + increasing - decreasing = stable m minor ? unknown**

| Caspian Tern | | # active nests (range of values); ns=no survey data | | | | |
|---|---|---|---|---|---|---|
| Location | Legal | pre-1970s | 1970s | 1980s/1990s | 1998 | ST |
| Lake Athabasca | 29-115-3-W4 | ns | 47 | 60-101 | ns | + |
| Lake Newell | whole lake | 0 | 0 | <10 | 74 | + |
| Lost Lake | 6-14-17-W4 | ns | ns | 1 | 1 | + |
| Murray Lake 2 | SW12-10-8-W4 | 0 | 0 | 0 | 1 | + |
| Namur Lake | 36-97-17-W4 | ns | ns | >40 eggs | 0 | m |
| Rattlesnake Lake 3 | N7-12-8-W4 | | | | 13 | + |
| Scope (Hays) Reservoir | whole lake | 0 | 0 | active | 1 | + |
| Tilley B Reservoir | 30-18-12-W4 | ns | 0 | ns | 1 | + |

**ST=STATUS + increasing - decreasing = stable m minor ? unknown**

SUMMARY:

Of 8 Caspian Tern nesting locations, all but one (Namur Lake) have increased in size or are new nesting locations from those known prior to the 1980s. In addition there are reports of adults at several other water bodies in southern Alberta, possibly indicative of new nesting locations.

The overall trend for Caspian Tern is significantly increasing though the overall population is still very low.

The total number of known nesting pairs in 1998 was 91 in southern Alberta. The Lake Athabasca site was not surveyed but it is expected to still be active.

### 4.4 DOUBLE-CRESTED CORMORANT

Double-crested Cormorants nest in a variety of situations but the largest colonies are on islands in larger water bodies. This species has a preference for ground nesting but nests both on the ground and in trees, sometimes in association with Great Blue Herons.

**ST=STATUS + increasing - decreasing = stable m minor ? unknown**

| Double-crested Cormorant | | # active nests (range of values); ns=no survey data | | | | |
|---|---|---|---|---|---|---|
| Location | Legal | pre-1970s | 1970s | 1980s/1990s | 1998 | ST |
| Antoine Lake | 4-67-14-W4 | ns | ns | 60-251 | 1120 | + |
| Arthur Lake | 22-55-5-W5 | ns | ns | 27-67 | 78 | + |

| | | | | | | |
|---|---|---|---|---|---|---|
| Astotin Lake | NW23-54-20-W4 | ns | 0 | 0-52 | 63 | + |
| Astotin Lake (E, beaver pond) | 19-54-19-W4 | ns | ns | 6-22 | ns | m |
| Beaver Lake | entire lake | ns | ns | active? | 0 | m |
| Beaverhill Lake | whole lake | 0 | 0-30 | 24-248 | 33 | = |
| Bruce Lake | E3-26-26-W4 | ns | ns | ns | 14 | m |
| Buffalo Lake | whole lake | 0 | 0 | 41 | 206 | + |
| Campbell = Tilley A Reservoir | NE6-18-12-W4 | ns | 0-64 | 40-124 | 68 | = |
| Chip Lake | whole lake | 0 | 0 | 0 | 106 | + |
| Crawling Valley Reservoir =Barkenhouse Lake | whole lake | ns | 0-23 | 46-65 | 0 | - |
| Dillberry (Freshwater Lake) | | 20 | 0 | 0 | 0 | m |
| Dowling Lake | NE12-32-15-W4 | 0 | 0-34 | 23 | 0 | m |
| Fincastle Lake 2 | 16-10-15-W4 | ns | ns | ns | 6 | m |
| Frank Lake | 19?-18-27-W4 | 0 | 0 | 4 | 0 | - |
| Frog Lake | 2-57-3-W4 | 2 | 92-277 | 0-2000 | 1145 | + |
| George Lake | 28-57-1-W5 | ns | ns | 6-8 | 0 | m |
| Graham Lake | approx 28-87-4-W4 | ns | ns | 2 | ns | m |
| Grantham | S25-13-15-W4 | ns | ns | ns | <10 | m |
| Grassy Lake | whole lake | ns | ns | ns | 92 | + |
| Hastings Lake | 18-51-20-W4 | ns | ns | ns | 65 | + |
| Irricana Lake | NE11-27-26-W4 | 0 | 0-18 | 93 | 0 | - |
| Joseph Lake | SE12-50-22-W4 | 0 | 0 | 85-142 | 390 | + |
| Keho Lake | SW36-11-23-W4 | 0 | 0-7 | 7 | 0 | m |
| Kerr Lake | 9-64-14-W4 | ns | ns | 77-98 | 180 | + |
| Kitsim Reservoir | whole lake | ns | ns | 45 | 247 | + |
| Lac Canard | SW36-56-10-W4 | ns | 0-100 | 50-332 | 583 | + |
| Lac la Biche | whole lake | 8-120 | 13 | 600-1500 | 1964 | + |
| Lake Newell | whole lake | 30-232 | 444-771 | 798 | 1077 | + |
| Langdon Reservoir 3 | SW36-22-27-W4 | ns | ns | ns | 128 | + |
| Little Bow Reservoir 4 | NW28-14-20-W4 | 0-7 | 3-41 | 13 | 26 | + |
| Lost Lake | whole lake | ns | ns | 10-20 | 50 | + |
| Lower Therien Lake | whole lake | 20-29 | 50-79 | 50-208 | 58 | = |
| Majeau Lake | 17-57-3-W5 | 0 | 0 | 0-12 | 49 | + |
| Milk River Ridge Reservoir 1 | SW14-5-20-W4 | ns | ns | 38 | 80 | + |
| Milk River Ridge Reservoir 2 | S8-5-19--W4 | ns | ns | 10 | 0 | m |
| Miquelon Lake | | active | 0 | 0 | 0 | m |
| Ministik Lake | | 12 | 0 | 0 | 0 | m |
| Muriel Lake | 11-60-5-W4 | ns | ns | 200-1200 | 1895 | + |
| Murray Lake | whole lake | 0 | 4-104 | 28-65 | 272 | + |
| Namur Lake | 36-97-17-W4 | 0 | 0 | active | 312 | + |
| Noral Lake | 17-65-16-W4 | ns | 0 | 0 | 100 | + |
| North Lucky Lake | NE21-62-18-W4 | ns | 0 | 51 | 35 | + |
| Orloff Lake | NE31-73-23-W4 | ns | 0 | 15 | 0 | m |

ST=STATUS + increasing - decreasing = stable m minor ? unknown

| Double-crested Cormorant | | # active nests (range of values); ns=no survey data | | | | |
|---|---|---|---|---|---|---|
| Location | Legal | pre-1970s | 1970s | 1980s/1990s | 1998 | ST |
| Pakowki Lake | whole lake | ns | 0 | 36 | 136 | + |
| Pelican Lake | whole lake | 0 | 257 | 100+ | 1025 | + |
| Plain Lake | 28-53-12-W4 | ns | ns | 0-78 | 0 | - |
| Portage Lake | whole lake | ns | ns | 75-1000 | 2821 | + |
| Prefontaine Lake | 32-55-6-W5 | ns | 0 | 16-80 | 80 | + |
| Rattlesnake Lake 1 | N7-12-8-W4 | ns | ns | ns | 23 | + |
| Sandy Lake | SE21-56-13-W4 | ns | 0-7 | 39-107 | 27 | + |
| Scope (Hays) Reservoir | whole lake | 0 | 25-394 | 30-70 | 328 | + |
| Seven Persons Reservoir | 29-10-7-W4 | ns | ns | active | ns | m |
| St. Mary Reservoir 1 | NW19-4-24-W4 | 0 | 14-44 | 22-29 | 76 | + |
| Stirling Lake | 6-7-19-W4 | 0 | 0 | 10 | 27 | + |
| Taber Lake | whole lake | ns | ns | ns | 93 | + |
| Thunder Lake | NW30-59-5-W5 | 0 | 0 | active, large | ns | - |
| Tilley B Reservoir | 30-18-12-W4 | ns | 0-81 | 22-125 | 386 | + |
| Tyrell Lake | NW9-5-17-W4 | ns | ns | ns | 5 | m |
| Utikuma Lake | whole lake | 0 | 61-69 | active | 87 | + |
| Waterton Reservoir | 14-4-28-W4 | ns | ns | active | 33 | + |
| Winefred Lake | 34-75-4-W4 | ns | ns | 8-10 | ns | m |

ST=STATUS + increasing - decreasing = stable m minor ? unknown

SUMMARY:

Of 62 Double-crested Cormorant colonies, 37 significant (more than 25 nesting pairs) colonies have increased while only 4 significant colonies have decreased in size. Three colonies have remained relatively stable. Eighteen are considered minor colonies, with a slightly smaller number of which are increasing compared to those decreasing.

The overall trend for Double-crested Cormorant is significantly increasing--this agrees with the Breeding Bird Survey trend map.

Vermeer (1969) reported that there were only 4 colonies totalling less than 200 nests in Alberta in 1967. By 1980, 27 colonies with 2300 nests were documented (Brechtel 1981). The total number of known nesting pairs in 1998 was estimated to be over 15500. Much of this increase is "real" and cannot be attributed to increased sampling effort alone.

### 4.5 GREAT BLUE HERON

With a few exceptions, most Great Blue Heron nests were in trees and near water. In the north this could be either poplar species (usually *Populus balsamifera*) or white or black spruce (*Picea glauca* or *Picea mariana*) while in the south, nests are usually in cottonwoods (*Populus deltoides*), balsam poplar (*Populus balsamifera*) and, rarely, aspen (*Populus tremuloides*) or willow (*Salix* spp.). Occasional individuals or small numbers were found nesting on islands in lakes on the ground. Most colonies were on dry land; however, the occasional colony was located on dead trees or shrubs in standing water.

Vermeer noted that Great Blue Herons often nest in dead trees and that the birds' excrement probably contributes to the death of these trees. Colonies will disappear as trees blow over and the birds will often move to nearby locations. This seems to be the principal cause of heronry loss. Severe flooding may also play a role in hastening the loss of dead and dying trees. Major channel shifts were noted after the severe floods of the mid 1990s in southwestern Alberta--in a few instances, the river channel had shifted and removed the nesting trees.

Vandalism has been a problem in the past at some colonies. Vermeer notes incidents of 12-15 herons being shot at colonies at Island Lake in 1965 and Trout Creek in 1963. Trees were cut at an Oldman River colony in the 1960s and there was vandalism at Bow River and Isle Lake colonies. Fire removed a colony at Majeau Lake in the 1930s.

ST=STATUS + increasing - decreasing = stable m minor ? unknown

| Great Blue Heron | | # active nests (range of values); ns=no survey data | | | | |
|---|---|---|---|---|---|---|
| Location | Legal | pre-1970s | 1970s | 1980s/1990s | 1998 | ST |
| Albert Creek | 523502, 11, 53252 | ns | ns | 5 | ns | m |
| Anderson Creek North | NW18-44-4-W5 | ns | ns | 16-21 | 10 | m |
| Arthur Lake | NE22--55-5-W5 | 44 | 18-40 | 19-30 | 12 | - |
| Astotin Lake | NW23-54-20-W4 | ns | ns | 0-19 | 11 | m |
| Athabasca River | 7-92-10-W4 | ns | ns | active | ns | m |
| Bang's Lake | 12-60-8-W4 | ns | ns | 16-33 | 24 | = |
| Baptiste River (South Fork) | NE16-41-12-W5 | ns | ns | 12 | ns | m |
| Battle Creek - Springdale | 4-44-27-W4 | ns | ns | 2 | ns | m |
| Battle Lake | 11-46-2-W5 | ns | ns | 1 | ns | m |
| Battle R - Alliance 2 | 19-39-12-W4 | ns | 4 | ns | 0 | m |
| Battle R - Big Knife | NE7-41-16-W4 | 12 | 11 | 14 | 19 | m |
| Battle R - Battle Bend SE | NW4-40-10-W4 | ns | 3 | ns | 0 | m |
| Battle R - Battle Bend E | 24-40-10-W4 | ns | ns | 9 | 4 | m |
| Battle R - Battle Bend S | SW6-39-11-W4 | ns | ns | ns | <15 | m |
| Battle R - Castor Ck | SE2-39-12-W4 | ns | ns | 15-20 | 20 | m |
| Battle R - Forestburg | 27-40-15-W4 | ns | ns | 8 | 4 | m |
| Battle R - Wetaskiwin | E12-45-23-W4 | 30 | 30-53 | 21 | 10 | - |
| Beaver Lake | entire lake | ns | 30-75 | 19-100 | 60 | = |
| Beaverdam Creek | SE21-28-3-W5 | 25-33 | 30-50 | 25-27 | 0 | - |
| Beaverhill Lake | 24-52-18-W4 | ns | 1-20 | 0 | 0 | m |
| Belly River | 22-4-27-W4 | ns | ns | 1 | 0 | m |
| Belly River | NE27-6-25-W4 | ns | ns | 0-4 | 0 | m |
| Birch River | SW8-109-14-W4 | ns | 12 | ns | ns | m |
| Blackfoot Lake | NW30-52-19-W4 | ns | 15-31 | 20-88 | 32 | = |
| Blindman River | NE28-43-2-W5 | ns | ns | 3 | ns | m |
| Bolloque Lake | 11-64-25-W4 | ns | 1 | 0-1 | 0 | m |
| Bow River - Arrowwood | 12-21-23-W4 | ns | 20-23 | 38 | 0 | - |
| Bow River - Grand Forks | SW8-12-12-W4 | ns | 10-20 | 12 | 0 | m |
| Bow River-Calgary Cominco | 6-23-29-W4 | ns | ns | 1 | 0 | m |
| Bow River - Carseland East | E35-21-25-W4 | 18 | 13 | 0-30 | 0 | - |
| Bow River - Carseland West | S23-21-26-W4 | 30-37 | 16-46 | 35 | 0 | - |
| Boyne Lake | 1-61-12-W4 | ns | ns | 10-16 | 20 | m |
| Brazeau Reservoir | N34-45-11-W5 | ns | 18 | 43 | 10 | - |
| Buck Lake A | 13-46-6-W5 | ns | 12 | 19 | 0 | m |
| Buck Lake B | 9-46-6-W5 | ns | 50 | active | 0 | - |
| Buck Lake C | 16-46-6-W5 | ns | 30 | 15 | 0 | - |
| Buffalo Creek | SW-35-46-7-W4 | ns | ns | 14 | ns | m |
| Buffalo Lake 1 | N26-40-21-W4 | 7-9 | 16-25 | 12-26 | 14 | = |
| Bull's Head Coulee | 12-11-5-W4 | ns | ns | 3 | 0 | m |
| Burbank (?Lake) | 13-39-27-W4 | ns | ns | 7 | ns | m |
| Burnstick Lake (Birch Lake) | SW18-35-6-W5 | ns | 10-11 | 31 | 35 | + |
| Calahoo B (Blacks Lake) | 36-54-28-W4 | ns | ns | 0-3 | ns | m |
| Cameron Lake | SE2-54-1-W5 | ns | 1-7 | 0-12 | ns | m |
| Campbell = Tilley A Reservoir | NE6-18-12-W4 | ns | ns | ns | 4 | m |
| Capt Eyre Lake | 20-38-5-W4 | ns | ns | active | 5 | m |
| Carvel Lake | 29-52-2-W5 | ns | ns | active | 5 | m |
| Chip Lake 1 | NE8-54-10-W5 | 13-36 | 48-60 | 40-67 | 45 | = |
| Clearwater River | NE13-35-9-W5 | ns | ns | 5 | ns | m |
| Coal Lake | 31-47-23-W4 | ns | 5-7 | 8 | ns | m |
| Coal Lake | 14-47-23-W4 | ns | 0-50 | ns | ns | - |
| Coleman Lake | 2-29-14-W4 | ns | 1-2 | 1 | 0 | m |

ST=STATUS + increasing - decreasing = stable m minor ? unknown

| Great Blue Heron | | # active nests (range of values); ns=no survey data | | | | |
|---|---|---|---|---|---|---|
| Location | Legal | pre-1970s | 1970s | 1980s/1990s | 1998 | ST |
| Cow Lake | 11-38-8-W5 | ns | ns | 30-50 | 0 | - |
| Crimson Lake PP. | SE27-40-8-W5 | ns | ns | 25 | 25 | = |
| Davey Lake | SE21-34-27-W4 | ns | ns | 7-8 | ns | m |
| Delburne Lake | NW22-37-23-W4 | ns | 3 | 3 | ns | m |
| Delburne Lake (?same as above) | 27-34-27-W4 | ns | 1 | 3 | ns | m |
| Dillberry (Freshwater Lake) | | ns | 5 | 0 | 0 | m |
| Dowling Lake | 5 or 7-32-14-W4 | 0-11 | 12-34 | active | 0 | - |
| Driedmeat Creek | SW8-45-19-W4 | ns | ns | 10-16 | <15 | m |
| East Hamilton Lake | 28-58-13-W4 | ns | 4 | 0 | 0 | m |
| Elbow River | 5-24-2-W5 | ns | ns | 4 | 0 | m |
| Elinor Lake | NW30-65-11-W4 | ns | 3 | 0-1 | ns | m |
| Erickson Lake | 36-63-6-W5 | ns | 9-13 | 14 | 11 | m |
| Fincastle Lake 1 | 16-10-15-W4 | ns | ns | 7-11 | 12 | m |
| Fish Creek | S36-22-1-W5 | 9 | 3-37 | 0-6 | ns | - |
| Fort Island | 17-55-10-15-W4 | ns | ns | 6-20 | 4 | m |
| Frenchman Lake | E16-64-10-W4 | 7 | 20-45 | 26-50 | 30 | = |
| Frog Lake 3 | 26-57-3-W4 | 45 | 100-200 | 30-100 | 56 | = |
| Galahad (area) | 9-41-14-W4 | 7 | 0 | ns | 0 | m |
| Gambling Lake | 20-50-20-W4 | ns | ns | active | <10 | m |
| George Lake | NW28-57-1-W5 | ns | ns | 1-9 | 0 | m |
| Ghost Pine Creek | 31-35-23-W4 | ns | 12 | 0-8 | ns | m |
| Goodwin Lake | 20-74-11-W4 | ns | ns | 4-26 | ns | m |
| Gull Lake | NW33-42-1-W5 | ns | ns | 5-11 | ns | m |
| Hastings Lake | 18-51-20-W4 | ns | ns | ns | 9 | m |
| Heart Lake | whole lake | ns | ns | 30-33 | 40-50 | + |
| Highwood River A | SW1-19-29-W4 | 23 | 0-23 | ns | 0 | m |
| Highwood River B/Baker Ck | N30 & 33-18-29-W4 | 14 | 5 | 25 | 0 | - |
| Hondo Lake | 24-70-27-W4 | ns | ns | 35-50 | 0 | - |
| Honeymoon Lake | S13-36-26-W4 | 5 | 28 | 2-10 | 0 | - |
| Hubert Lake | NW14-64-2-W5 | ns | 15-26 | 26-35 | 3 | - |
| Island Lake | NW30-67-23-W4 | ns | 15-26 | 18-50 | 38 | = |
| Island Lake-near Smoky L | E35-61-17-W4 | ns | 1-18 | 0-18 | 0 | m |
| Island Lake | 1-68-24-W4 | 1-10 | 0 | 0 | 0 | m |
| Isle Lake | 4-54-5-W5 | ns | 5 | ns | 0 | m |
| Isle Lake | 21-53-6-W5 | ns | ns | 22 | 25 | = |
| Islet Lake | 1 or NE2-52-20-W4 | 8 | 12-25 | 0-1 | 0 | - |
| Jamieson Lake | NE35-43-7-W4 | 15 | active | active | ns | m |
| Kerr Lake | 9-64-14-W4 | ns | 15-51 | 11-55 | 12 | - |
| Killarney Lake | 5-42-1-W4 | ns | ns | 0-5 | 0 | m |
| Lac Canard | SW36-56-10-W4 | ns | 20-60 | 12-45 | 4 | - |
| Lac la Biche | whole lake | ns | ns | 1-9 | 25 | + |
| Lake Newell | whole lake | ns | ns | 14 | 11 | m |
| Leming Lake | NW2-65-4-W4 | ns | 2-25 | 0-4 | ns | - |
| Little Bow River | 19-16-26-W4 | ns | 4 | 14 | 0 | m |
| Little Red Deer River | E9-33-3-W5 | ns | 13-50 | 12 | 0 | - |
| Lloyd Creek | 28-44-2-W5 | ns | ns | 2 | ns | m |
| Long Lake | 1-63-19-W4 | ns | active | 0 | 0 | m |
| Lougheed Lake area | NW33-44-14-W4 | ns | 12 | 7 | 0 | m |
| Lower Mann Lake | 1/12/13 & 14-60-11-W4 | 13 | 1 | 0 | 0 | m |
| Majeau Lake | SW17-57-3-W5 | 20 | 30-60 | 23-50 | 30 | = |
| Marguerite Lake | 12-65-6-W4 | ns | ns | 0-3 | 0 | m |

ST=STATUS + increasing - decreasing = stable m minor ? unknown

| Great Blue Heron | | # active nests (range of values); ns=no survey data | | | | |
|---|---|---|---|---|---|---|
| Location | Legal | pre-1970s | 1970s | 1980s/1990s | 1998 | ST |
| Marie Lake | E16-65-3-W4 | ns | ns | 8 | ns | m |
| Matchayaw Lake | SE20-55-1-W5 | 14 | 11-14 | 6-14 | ns | m |
| McNaught Lake | NE10-71-10-W6 | ns | ns | ns | 5 | m |
| Medicine Hat | E5-13-5-W4 | 0 | 0 | 32 | 24 | = |
| Meinsinger Lake | NW17-15-2-W5 | ns | ns | 66 | 28 | - |
| Meyer (D) Lake | 23-69-24-W4 | 17 | 6 | 0 | 0 | m |
| Ministik Lake | | 70 | 0 | 0 | 0 | - |
| Miquelon Lake | | active | 0 | 0 | 0 | m |
| Moore Lake | 10-64-4-W4 | ns | ns | 20-30 | 10 | - |
| Mud Lake | 36-59-8-W5 | ns | ns | 3 | 0 | m |
| Murray Lake | whole lake | 30 | ns | 50 | 11 | - |
| Muskeg Creek | SW11-45-1-W5 | ns | ns | 15-17 | 15 | m |
| New Norway (area) | 12-45-22-W4 | ns | active | ns | 0 | m |
| Noral Lake | 17-65-16-W4 | ns | 12 | 30-39 | 30 | = |
| North Bellis Lake | 29-60-15-W4 | ns | ns | 14-37 | <15 | - |
| North Buck Lake | 12-66-18-W4 | ns | 5-13 | 13-72 | 95 | + |
| North Edwand Creek | 16-61-15-W4 | ns | ns | 0-5 | 0 | m |
| North Lucky Lake | NE21-62-18-W4 | ns | 25 | 18-25 | 3 | - |
| North Saskatchewan River | N14-57-14-W4 | ns | 1 | ns | 0 | m |
| Oldman River-Picture Butte | 1-11-19-W4 | 14-19 | ns | 15-17 | 0 | m |
| Oldman River | 29-8-22-W4 | ns | ns | active | 0 | m |
| Oldman River-St. Mary River | NE9-8-22-W4 | ns | ns | 10-56 | 0 | - |
| Orloff Lake | NE31-73-23-W4 | ns | 40-50 | 25-50 | 20 | - |
| Oster Lake | NE9-54-20-W4 | ns | 9-13 | 0-3 | 0 | m |
| Pakowki Lake 7 | NW7-5-7-W4 | ns | ns | ns | 10 | m |
| Parlby Creek | 31-40-23-W4 | ns | 7 | 18-28 | 24 | = |
| Parting Lake | NW22-58-6-W5 | ns | ns | 15-20 | 0 | m |
| Paul Lake | 4&5-54-20-W4 | ns | ns | 13-22 | 2 | m |
| Pelican Lake | SW9 (or 8)-79-21-W4 | 35 | 57 | active | 0 | - |
| Pembina River | SE16-60-1-W5 | ns | ns | 3-19 | ns | m |
| Pembina River - Dapp | | ns | ns | 12 | ns | m |
| Perryvale A | 2-63-22-W4 | ns | ns | 10-28 | 25 | = |
| Perryvale B | 27-63-23-W4 | ns | ns | 3-10 | 0 | m |
| Pigeon Lake | NW6-47-1-W5 | ns | 5-12 | 11-16 | 10 | m |
| Pinehurst Lake | 24-65-10-W4 | ns | ns | 0-6 | 0 | m |
| Portage Lake | whole lake | ns | ns | 0-31 | 2 | - |
| Prefontaine Lake | 32-55-6-W5 | ns | 0 | 1-12 | 3 | m |
| Raft Lake | 5-54-5-W4 | ns | ns | 7-16 | 10 | m |
| Red Deer River-Blindman | 18-39-26-W4 | ns | ns | 4 | 0 | m |
| Red Deer River-Dinosaur | Cent28-21-12-W4 | 32 | 10-41 | 4-34 | 0 | - |
| Ribstone Creek | 9-37-9-W4 | ns | ns | active | 10 | m |
| Rocky Mountain House (area) | N25-39-8-W5 | ns | 6 | ns | 0 | m |
| Romeo Lake | 31-58-6-W5 | ns | 0-1 | 10 | 0 | m |
| Rosebud River | 27-30-1-W5 | ns | 15 | ns | 0 | m |
| Ross Creek | 3-12-3-W4 | 0 | 25-45 | 70-80 | 0 | - |
| Sandy Lake | S21-56-13-W4 | ns | 9 | 3-22 | 14 | m |
| Schroeder Lake | NE12-37-26-W4 | 18 | 10 | 1-50 | 10 | - |
| Scope (Hays) Reservoir 1 | 3+10-13-14-W4 | 0 | 0 | 5 | 8 | m |
| Sheep River | 6-20-2-W5 | 25 | 0 | ns | 0 | - |
| Sheep River | 27-20-2-W5 | ns | 9-23 | 12 | 0 | m |
| Sheep River | 35-20-2-W5 | ns | 27 | 12 | 0 | - |

ST=STATUS + increasing - decreasing = stable m minor ? unknown

| Great Blue Heron | | # active nests (range of values); ns=no survey data | | | | |
|---|---|---|---|---|---|---|
| Location | Legal | pre-1970s | 1970s | 1980s/1990s | 1998 | ST |
| Sounding Creek | NW36-34-13-W4 | ns | ns | 7 | 0 | m |
| South Tea Lake | NW9-67-7-W5 | ns | 6-7 | 6 | ns | m |
| Spruce Island Lake | NE1-64-26-W4 | ns | 4-6 | 6-20 | ns | m |
| St. Mary River | NE or NW5-3-24-W4 | ns | ns | 30-50 | 0 | - |
| Taber P.P. | 18-10-16-W4 | ns | ns | active | 0 | m |
| Thunder Lake | NW30-59-5-W5 | 0-14 | 12-33 | 0-30 | 0 | - |
| Trout Creek | NE34-11-28-W4 | 12 | ns | 0 | 0 | m |
| Unnamed Lake | NW33-44-10-W4 | ns | 12 | ns | 0 | m |
| Unnamed Lake | 1-90-15-W5 | ns | ns | 6 | ns | m |
| Vermilion River | 13-52-10-W4 | ns | ns | 15-27 | 0 | - |
| Vincent (west of) | 27-59-10-W4 | ns | ns | 20-30 | 20 | = |
| Wakomao Lake | NE5-60-24-W4 | ns | 39-44 | 6-35 | 0 | - |
| Whelp Brook | 22-42-26-W4 | ns | ns | 14 | 0 | m |
| Whitefish Lake | 18-62-13-W4 | ns | 2 | 0 | ns | m |
| Willow Creek | NE or SW28-13-28-W4 | ns | 30 | 0-6 | 0 | - |
| Winefred Lake | 34-75-4-W4 | ns | ns | 2-12 | ns | m |
| Wolf Lake | SE9-66-7-W4 | ns | 15-25 | 10-42 | 24 | = |

ST=STATUS + increasing - decreasing = stable m minor ? unknown

SUMMARY:

Of 170 Great Blue Heron colonies, 4 significant (more than 25 nesting pairs) colonies have increased while 42 significant colonies have decreased in size or become extinct. 17 colonies have remained relatively stable.

107 are considered minor colonies. Of this number only 12 are considered to be increasing while 55 are decreasing (or extinct) and 9 are considered stable. 31 of these minor colonies were not surveyed in 1998.

The overall trend for Great Blue Heron is significantly decreasing. This does not agree with the Breeding Bird Survey trend map which, other than an area of Aspen Parkland and Dry Mixedwood Boreal Forest in East-central Alberta, shows all areas increasing. Of particular note from the 1998 census is the virtual absence of known active colonies along the major rivers in the South Saskatchewan Basin. Only one active colony on a river (Medicine Hat) was located in 1998 in this region.

The total number of known nesting pairs in 1998 was estimated to be 1100. Despite the increased effort represented by the 1998 census, this compares to a total estimated provincial population of 1500-1600 nesting pairs prior to 1980.

### 4.6 RING-BILLED GULL

Most Ring-billed Gull colonies were situated on islands in both small and large bodies of water. There are occasional records of colonies on causeways and peninsulas but these have often been subject to heavy predation.

Colonies have disappeared periodically due to periods of drought or increased water levels that have flooded out nesting islands.

ST=STATUS + increasing - decreasing = stable m minor ? unknown

| Ring-billed Gull | | # active nests (range of values); ns=no survey data | | | | |
|---|---|---|---|---|---|---|
| Location | Legal | pre-1970s | 1970s | 1980s/1990s | 1998 | ST |
| Akasu Lake | whole lake | ns | ns | ns | 1253 | + |
| Antoine Lake | 4-67-14-W4 | ns | ns | active | 200 | + |
| Beaver Lake | 34-65-12-W4 | ns | ns | 100 | part of 500 | + |
| Beaverhill Lake | whole lake | 1000-3000 | 1295 | ns | 40 | - |
| Birch River Delta | 8-109-14-W4 | ns | 1 | ns | ns | m |

ST=STATUS + increasing - decreasing = stable m minor ? unknown

| Ring-billed Gull | | # active nests (range of values); ns=no survey data | | | | |
|---|---|---|---|---|---|---|
| Location | Legal | pre-1970s | 1970s | 1980s/1990s | 1998 | ST |
| Bruce Lake | E3-26-26-W4 | ns | active (part of 400 adults) | ns | 210 | = |
| Buffalo Lake | whole lake | 500-1000 | 2000 | active | 1225 | = |
| Bushy Head Lake | 35-44-7-W4 | ns | ns | 350-400 | 905 | + |
| Campbell = Tilley A Reservoir | NE6-18-12-W4 | ns | active (part of 1000 adults) | ns | 1242 | + |
| Chip Lake | whole lake | 100 | 249 | ns | 340 | + |
| Cowoki Lake | 2-19-13-W4 | active | ns | ns | 0 | - |
| Crawling Valley Reservoir =Barkenhouse Lake | whole lake | ns | active | ns | 1282 | + |
| Dowling Lake | NE12-32-15-W4 | 3000+ | 5184 | ns | 0 | - |
| Eagle Lake | ?30-23-24-W4 | 100-500 | 0 | ns | 0 | - |
| Ferguson Lake | 25-72-6-W6 | ns | ns | active | part of 200 | + |
| Frank Lake | 19?-18-27-W4 | 100-500 | 1017 | 3 | 0 | - |
| Frog Lake | whole lake | ns | ns | 0-300 | 2 | - |
| God's Lake | 18?-90-2-W5 | ns | ns | 1 | ns | m |
| Grassy Lake 2 | E34-9-12-W4 | ns | ns | ns | 3726 | + |
| Grouard Channel | 20-75-14-W5 | ns | active | ns | 0 | - |
| Horse Lakes-NW Buffalo Bay | 2-76-15-W5 | ns | active | ns | 0 | - |
| Horse Lakes-S Buffalo Bay | 24-75-15-W5 | ns | active | ns | 0 | - |
| Horsefly Lake | 12-9-16-W4 | active | ns | ns | 0 | - |
| Irricana (Salt) Lake | NE11-27-26-W4 | 1000-3000 | 4812 | active | 0 | - |
| Johnson Reservoir | 12-16-14-W4 | active | ns | ns | 0 | - |
| Keho Lake | x-11-23-W4 | 3000+ | 4296 | active | 0 | - |
| Kitsim Reservoir | whole lake | ns | ns | ns | 2941 | + |
| Lac la Biche 3 | 4-68-14-W4 | ns | ns | active | 490 | + |
| Lac Sante | 8-56-11-W4 | ns | ns | 150 | 0 | - |
| Lac Ste Anne | W15-54-3-W5 | ns | ns | active | 450 | = |
| Lake Athabasca | 12-115-4-W4 | 100-500 | ns | ns | ns | ? |
| Lake Newell | whole lake | 1930-3000+ | 5232-6091 | ns | 1331 | - |
| Langdon Reservoir | whole lake | ns | ns | active | 1487 | + |
| Lesser Slave Lake-Swan Pt | 22-74-9-W5 | ns | active | ns | 0 | - |
| Lesser Slave Lake-West | 17-75-13-W5 | ns | active | ns | 0 | - |
| Lesser Slave Lake-Joussard | 9-74-13-W5 | ns | active | ns | 0 | - |
| Lesser Slave Lake-East | 20-73-5-W5 | ns | active | ns | 0 | - |
| Little Bow Reservoir | whole lake | 4-25 | active | active | 47 | + |
| Lost Lake | 6-14-17-W4 | ns | ns | 10-20 | 1 | - |
| Lower Therien Lake 1 | 23-57-10-W4 | 500-1000 | 0 | 100-2000 | 1200 | = |
| Many Island Lake | 13-1-W4 | active | ns | ns | 0 | - |
| McGregor Lake | 23-18-22-W4 | ns | ns | active | 0 | - |
| Milk River Ridge Reservoir 1 | SW14-5-20-W4 | ns | part of 2000-3000 | active | 7734 | + |
| Milk River Ridge Reservoir 2 | SW14-5-20-W4 | ns | part of 200-400 | active | 0 | - |
| Miquelon Lake 1 | NE30-49-20-W4 | 58-315 | ns | ns | 0 | - |
| Miquelon Lake 2 | SW30-49-20-W4 | 7-1200 | 10087 | active | 9925 | + |
| Muriel Lake | whole lake | ns | ns | 10-3000 | 2500 | = |
| Murray Lake | whole lake | 1000-3000 | 747 | active | 1192 | = |
| Namaka Lake | 12-23-24-W4 | active | ns | ns | 0 | - |
| Pakowki Lake | whole lake | ns | part of 40-80 | active | 520 | + |
| Pelican Lake | 30-78-21-W4 | 0 | ns | ns | 200 | + |

ST=STATUS + increasing - decreasing = stable m minor ? unknown

| Ring-billed Gull | | # active nests (range of values); ns=no survey data | | | | |
|---|---|---|---|---|---|---|
| Location | Legal | pre-1970s | 1970s | 1980s/1990s | 1998 | ST |
| Pigeon Lake | E27-46-28-W4 | ns | active | ns | 19 | m |
| Portage Lake 1 | 10-69-14-W4 | ns | ns | 69-120 | 10 | - |
| Rattlesnake Lake 1 | N7-12-8-W4 | ns | ns | ns | 1441 | + |
| Rock Island Lake (Calling L area) | 21-75-22-W4 | ns | ns | 0 | part of 177 | + |
| Ross Lake | NW30-2-22-W4 | ns | part of 562 | ns | part of <100 nests | - |
| Scope (Hays) Reservoir | whole lake | ns | active | 200-500 | 3031 | + |
| Shanks Lake | 27-1-21-W4 | ns | 43 | ns | 0 | - |
| Sinking Lake | 3-60-6-W4 | ns | ns | 50 | 0 | - |
| St Mary Reservoir 1 | NW19-4-24-W4 | 1000-3000 | 856 | ns | 15 | - |
| St Mary Reservoir 2 | S3-5-24-W4 | ns | ns | ns | part of 80 | + |
| Stirling Lake | 6-7-19-W4 | 1000-3000 | 218 | ns | 0 | - |
| Suds Lake | 27-5-18-W4 | ns | active | ns | 0 | - |
| Tilley B Reservoir | 30-18-12-W4 | ns | active | ns | 500 | + |
| Timko Lake | 33-17-13-W4 | active | ns | ns | 0 | - |
| Upper Therien Lake | SE5-58-9-W4 | ns | ns | 200 | 0 | - |
| Utikuma Lake | whole lake | 0 | ns | ns | 5 | m |
| Wadlin Lake | SW1-101-11-W5 | ns | ns | active | ns | ? |
| Waterton Reservoir | 14-4-28-W4 | ns | ns | active | 135 | + |
| Winefred Lake | 34-74-4-W4 | 100-500 | ns | 50 | ns | ? |

ST=STATUS + increasing - decreasing = stable m minor ? unknown

SUMMARY:

Of 70 Ring-billed Gull colonies, 23 significant (more than 25 nesting pairs) colonies have increased while 34 have decreased in size. Six colonies have remained relatively stable. Four are considered minor colonies and three are of unknown status as there have been no recent surveys.

The overall trend for Ring-billed Gull is increasing as many of the declining colonies have been relatively small whereas many of the increasing colonies have been relatively large. This is a trend that has been evident throughout North America and agrees with the Breeding Bird Survey trend map.

Some notable declines have occurred in large colonies at Beaverhill Lake, Dowling Lake (dry), Irricana (Salt) Lake, Keho Lake (higher water levels), Lake Newell, St. Mary Reservoir and Stirling Lake.

The total number of known nesting pairs in 1998 was over 46000. This compares to a total estimated maximum provincial population of about 20000-25000 nesting pairs prior to 1970 (20000 according to the Canadian Wildlife Service in 1968) but not much different than the Canadian Wildlife Service estimate of 40000 pairs in 1977. After a phenomenal rise through the 1970s, it appears that the growth curve has flattened out. This may be due to an end to the explosion of irrigation reservoir construction and associated nesting islands and to a tempering of an initial growth phase with "natural" population controls including disease, predation, human disturbance, drought, and high water levels during wetter periods.

The difference of 6000 nesting pairs can be attributed, at least in part, to a more comprehensive census conducted in 1998 and is within a sampling error of +/-15%. The 1998 studies showed more significant colonies declining than increasing, even though overall population size was rising due to expansion in a greater number of the largest colonies.

## 5.0 RECOMMENDATIONS

Further monitoring surveys of all colonial nesting birds should be undertaken on a periodic basis.

For species that are increasing or stable, this can be on a 3-5 year basis for significant colonies.

For species that are decreasing, all colonies should be resurveyed every 3 years and significant colonies should be resurveyed annually. More detailed population work should also be undertaken to assess survival rates and underlying causes that may be contributing to the apparent declines. In all instances, representative coverage of different natural regions (e.g. Boreal Forest, Aspen Parkland, Grassland) should also be a goal.

A comprehensive survey of all these colonial nesting species should be undertaken every 10 years. The following are recommendations for individual species.

### 5.1 AMERICAN WHITE PELICAN

Northern colonies that were not surveyed in 1998 (e.g. Birch Lake, Wadlin Lake, Mountain Rapids) should be censused as soon as possible. The most significant colonies (over 100 nests) should be resurveyed every 3-5 years, including:

Beaverhill Lake
Birch Lake
Buffalo Lake
Joseph Lake
Lake Newell 4 - Pelican Island
Mountain Rapids (Slave River)
Namur Lake
Pelican Lake - South Island
Scope (Hays) Reservoir
Utikuma Lake

A comprehensive survey of all known American White Pelican colonies should be undertaken every 10 years.

### 5.2 CALIFORNIA AND RING-BILLED GULLS

The most significant colonies (over 1000 nests, recent or historical) should be resurveyed every 3-5 years, including:

Akasu Lake
Antoine Lake
Buffalo Lake
Campbell Reservoir
Dowling Lake
Grassy Lake 2
Irricana (Salt) Lake
Joseph Lake
Keho Lake
Kitsim Reservoir 6
Lac la Biche
Lake Newell 3
Langdon Reservoir 1/3
Lower Therien Lake 1
Milk River Ridge
Reservoir 1
Miquelon Lake 2
Muriel Lake
Murray Lake 2
Rattlesnake Lake 1
Scope (Hays) Reservoir
St Mary Reservoir 1
Stirling Lake

A comprehensive survey of all known and potential California and Ring-billed Gull colonies should be undertaken every 10 years.

### 5.3 CASPIAN TERN

The most significant colonies (Lake Athabasca and Lake Newell) should be resurveyed every 3-5 years. Notes on nesting at other locations should kept when conducting surveys of colonial nesting birds and other species. Lake Athabasca (Egg Island) should be censused as soon as possible.

## 5.4 DOUBLE-CRESTED CORMORANT

The most significant colonies (over 250 nests, recent or historical) should be resurveyed every 3-5 years, including:

| | | | |
|---|---|---|---|
| Antoine Lake | Lac Canard | Murray Lake | Scope (Hays) Reservoir |
| Beaverhill Lake | Lac la Biche | Namur Lake | Tilley B Reservoir |
| Frog Lake | Lake Newell | Pelican Lake | |
| Joseph Lake | Muriel Lake | Portage Lake | |

A comprehensive survey of all known and potential Double-crested Cormorant colonies should be undertaken every 10 years.

## 5.5 GREAT BLUE HERON

An increased survey effort is needed to address the concern over apparent declines of this species in the settled parts of Alberta, particularly in the Grassland and Aspen Parkland Natural Regions and the Dry Mixedwood Boreal Forest Subregion. This includes southern Alberta's major prairie streams--the Belly, Bow, Oldman, Highwood, Red Deer, St. Mary's, Sheep and Waterton Rivers, and Ross and Willow Creeks as well as former major nesting lakes in central Alberta--Buck, Cow, Thunder and Wakamoto Lakes.

Resurveys of all Great Blue Heron colonies should be conducted every 3 years. Detailed annual surveys, including survival data, should be undertaken at the following significant stable or increasing colonies until a better understanding of overall trends and underlying causes can be established:

| | | | |
|---|---|---|---|
| Bang's Lake | Chip Lake 1 | Island Lake | North Buck Lake |
| Beaver Lake | Crimson Lake P.P. | Isle Lake | Parlby Creek |
| Blackfoot Lake | Frenchman Lake | Lac la Biche | Perryvale A |
| Buffalo Lake 1 | Frog Lake 3 | Majeau Lake | Vincent (west of) |
| Burnstick Lake (Birch L) | Heart Lake | Noral Lake | Wolf Lake |

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